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## ABSTRACT

This book provides teachers and parents with a quick reference on important childhood developmental issues. It explains what children should be learning and doing in the classroom at each developmental stage, ages 4 through 12. The book begins by discussing how developmental issues can affect administrative and classroom decisions regarding mixed-age grouping, ability grouping, retention, food, exercise, the structure of the school day, and racial and cultural questions. Each of the nine chapters, one for each age, begins with a narrative overview describing general developmental characteristics relating to behavior, emotional needs, and social interactions. The chapters conclude with sets of charts that allow readers to identify developmental "yardsticks" for a given age. The charts outline characteristic growth patterns (physical, social, language, and cognitive), as well as what to expect in the classroom regarding vision and fine motor ability, gross motor ability, cognitive growth, and social behavior. A set of curriculum charts summarizing the developmental continuum between ages 4 and 12 is also included, covering reading, writing, mathematics, and thematic units in social science, science, and current events. The book concludes with a list of over 100 favorite books for different ages and a 28-item bibliography. (TJQ)

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ED 368 472

# Yardsticks

## Children in the Classroom Ages 4-12

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**Chip Wood**

**Northeast Foundation for Children**

# **Yardsticks**

**Children in the Classroom  
Ages 4-12**

**Chip Wood**

**Northeast Foundation for Children**

All net proceeds from the sale of *Yardsticks: Children in the Classroom Ages 4-12* support the work of the Northeast Foundation for Children, Inc. It is a nonprofit, educational foundation established to demonstrate through teaching, research, and consultation, a sensible and systematic approach to schooling.

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For Reenie

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Chart material for ages 5-7 was originally adapted from Frances Ilg, *Scoring Notes: The Developmental Examination* (New Haven, CT: 1965) and has since been modified through further reading, research and observation. Other original source material supporting the charts is found in the Resources Bibliography.



CHERRY WYMAN

*"How old would you be if you didn't  
know how old you were?"*

Attributed to Satchel Paige



*"In order to be treated fairly and equally,  
children have to be treated differently."*

Melvin Konner, *Childhood: A Multicultural View*



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# Preface

This book is about children in school. It is designed for both teachers and parents and provides easy reference to expectations about children's growth and development in the classroom.

I have tried in this small volume to consolidate a good deal of theory with years of professional experience in schools. My goal is to present important information in a readable format without compromising the key ideas passed down from the worlds of anthropology, child development, pediatrics and education. I hope you will find the information about a particular age immediately useful, and will also be captured by the obvious patterns of development.

♦ ♦ ♦

In 1978, after six years as an elementary school teacher and teaching principal, I attended a workshop on child development sponsored by the Gesell Institute. That one day changed forever my view of education. Suddenly, I saw the

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children instead of the school; the lives to be lived, not just the lessons to be learned. Reading and math became contextual, rich with the particular developmental understanding that children brought to the subject matter at different ages. I vowed to learn more. Over the past fifteen years I have directed my professional efforts toward understanding the context of learning and passing on this knowledge to teachers.

My approach to child development is a mixture of theory and practice, reading and observation, repetition and reflection, sifted through my own experience as child, parent, teacher, administrator and teacher educator. The works of Piaget, Gesell, Erikson, Montessori, Rudolph Steiner, Caroline Pratt, Lucy Sprague Mitchell, Dorothy Cohen, Louise Bates Ames, and others provided me with a foundation for my observations; they helped me to understand some of the behaviors and characteristics I was seeing each day of every school year.

In 1985, with my colleagues Ruth Charney, Marlynn Clayton, Marion Finer and Jay Lord, I helped to write the first book published by the Northeast Foundation for Children, *A Notebook for Teachers: Making Changes in the Elementary Curriculum*. In that book I charted the developmental characteristics of children from ages five to seven, using the works of Gesell, Piaget and Erikson as primary references. Since that time, I have deliberately sought to broaden my knowledge through direct observation in the classroom as well as expanded reading of other and more diverse theoreticians. The classic child development research confronted me with some common difficulties: it was largely focused on the white world of middle class children and much of it was over forty years old.

*Raising Black Children* and other works by African American psychiatrists James Comer and Alvin Poussaint and *Childhood: A Multicultural View* by Melvin Konner are current resources which provide invaluable insight into the growth of children of African American, Latino, and Asian descent. Beyond these sources, I have found there is not a great deal available to teachers and parents which is written on a popular level. One author who *has* bridged the fields of child development, education and anthropology is Barbara Rogoff. Her book, *Apprenticeship in Thinking*, has been an invaluable resource in my growing interest in social interaction, social skills development and the classroom.

For *Yardsticks*, I have revised the charts for ages five to seven to reflect my own growing understanding of these ages and have added information for the four year old and ages eight through twelve. I have drawn on many more sources, including the actual observations of hundreds of children by scores of teachers over the past twenty years, to create this continuum. I am fully aware that I have had to be selective in culling the developmental characteristics that seem to be most indicative of a particular age.

It is also important, as I will note here and often, that you understand the limitations of these characteristics — they are general expectations that help us gain an appreciation for the patterns of development rather than standards or precise predictions of what will happen at a given age. Culture, environment, health, temperament, and personality all affect the make-up of every child at every age. It is helpful that certain patterns have emerged and been documented, but they are never absolute. As Melvin Konner writes in *Childhood*, "We

have to be patient; we are finding out new things just as fast as we know how. And if anyone gives you the impression that he has the answers now to the great timeless questions about childhood, you can smile and listen politely or you can turn your back and walk away, but in any case don't believe him."

I want to be clear that this book does not present answers, but snapshots of development. They are based on observations in the classroom — mine and many other teachers — and the observations of the great theorists in many settings at many different points in history.



I have been blessed during my twenty years as a classroom teacher to collaborate with many gifted and dedicated colleagues. I would like to acknowledge the insight of several teachers who, over the years, have shared their struggles and observations and opened their classrooms to inquiry and shared exploration on how to nurture a better classroom. Particularly, Marlynn Clayton and Deborah Porter, with whom I have shared two schools, the teaching of my own children and the teaching of other teachers. It has been a privilege to journey beside them.

Also, Ruth Charney, Marion Finer, Paula Denton, Roxarin Kriete, and Ellen Doris, with whom I have shared classrooms, and Center School co-founder, Jay Lord — they have all taught me much about the art of teaching. Ruth Charney's skill in managing a classroom with intelligence, humor and deep respect for the lives of all children has been a constant source of inspiration for me. Also, I extend my gratitude to all the

other teachers at the Center School, who over the past thirteen years have persisted in their dedication to exploration and change on behalf of children, as well as to all the parents at the Center School who have shown a strong commitment to a broader mission in education.

In Washington, DC, I am indebted to Maurice Sykes, Linda Harrison, Barbara Nophlin, Mary Duru, Kathleen Thomas, Austine Fowler, and Myrtle Lewis for believing in our work and to a large number of classroom teachers who have opened their doors, including Joyce Love, Stephanie Abney and all the teachers at Garrison Elementary and their Principal, Andrea Robinson; Sheiia Ford, Principal, and all of the fine staff at Horace Mann Elementary. Our work in the classrooms of West Haven, CT, Baltimore, MD and Amherst and Fitchburg, MA has enhanced my understanding of the difficult issues teachers and children face today in a rapidly changing world. These are but a few of the places — each classroom, each workshop, each child encountered has made me a better teacher. I am grateful for each moment.

I would especially like to acknowledge my deep appreciation to Jackie Haines, currently Director of the Gesell Institute, who served as my mentor in child development and patiently taught me to see with new eyes.

The editorial work of Allen Woods and the production team of Sandy Yager, Penny Ricketts, and Giar Lombardo helped me create this book. Thanks also to the children and teachers of the Greenfield Center School for their bibliographies of favorite and useful books as well as self-portraits. My appreciation also to Nancy Richard, Sue Sweitzer, Roxann

Kriete, Marlynn Clayton and Ruth Charney who read the manuscript in draft form.

Finally, to my wife, Reenie, and my two children, Jon and Heather, who have shared me generously with so many children and families over the years — thank you for your love and support.

*Yardsticks* is not a definitive work, but a defining effort. Like a dictionary or thesaurus, it can provide reference but understanding can only be obtained in the context of your own search for meaning about children's growth and development.

I am sure most of you are captivated, as I am, by the ultimate magic and mysteries of childhood. I also share with you a deep and abiding reverence for the clear, honest vision of the children themselves. I believe it is our duty to protect and nourish that vision through our teaching and parenting. I hope that *Yardsticks* helps you in this effort.

Robert (Chip) Wood  
Greenfield, Massachusetts  
December, 1993

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# **Developmental Issues Affecting All Children**

Children's developmental needs should be the foundation for every choice we make in our classrooms and schools. They need to remain at the center of our decisions about school organization, policies, scheduling, and everyday practices. Too often, our choices affect children negatively, interfering with growth and learning rather than encouraging it. If we understand children's developmental needs more fully, we can change — and improve — our schools. Here are some suggestions on issues that are often overlooked or misunderstood.

## **Mixed-Age Groupings**

From the one-room schoolhouse to the assembly-line model of single-age grades, America's schools have tried many ways

Developmental Issues Affecting All Children \_\_\_\_\_ 1

to group students. Most traditional classrooms contain a single grade of children, but because of chronological differences and standard academic retention policies, the ages of children will typically vary by as much as two years in such groupings.

In the 1990's there is a renewed interest in mixed-age groupings of children, largely in the primary grades. A great deal of attention is being focused on classrooms where children between six and nine years of age work in heterogeneous groupings and progress academically according to their own needs, timetables and abilities. This approach was also tried in so-called "open classroom" schools in the 1960's and 70's and during the progressive era of education in the 1930's and early 1940's.

There is much to be said for mixed-age *learning* in schools: children can gain a great deal from teaching younger children; younger children have much to learn from reaching up for new knowledge and modeling older children. But mixed-age teaching poses distinct challenges.

I taught in a mixed-age primary (grades 1, 2, 3) setting for three years in the 1970's and had the opportunity to see children's progress in such a program. There was no question that the children enjoyed the social mix of ages much of the time and that they found the mix of activities stimulating. However, it became clear to me and my colleagues that it was nearly impossible to keep up with the children's academic needs, given the wide span of abilities. A lovely environment for the children created burn-out for a group of highly motivated and conscientious teachers.



The academic needs of all the children were clearly not being met. Parents were rightly concerned about whether older children were being challenged and whether the youngest children could keep up. After another twenty years of classroom experience, my colleagues and I have settled on two premises for grouping children:

1. The maximum range for even the most talented teachers is about a three-year chronological and two-year grade spread.
2. It's extremely important for teachers to have the opportunity to stay with the same group of children for two years in a row.

The practice of moving children every year from one adult to another was based on Henry Ford's model for building cars. Today we know that model may not even be the best for



building automobiles. It certainly is not the best for building successful students. Teachers who have the opportunity to teach the same children for two years in a row report a number of benefits. They know their students' strengths and weaknesses better at the beginning of the second year. Less time is needed for classroom management and learning expectations (although with developmental changes there will be different issues to deal with in the second year). Parents also report greatly improved relationships with teachers concerning the "shared" youngster.

### **Some Suggestions on Grouping**

Certain ages of children seem to do better together than others, based on a number of different two-year groupings in our laboratory school. For instance, five and six year old children work extremely well together, which makes kindergarten and first grade a good, all-day mix. In our opinion, the first grade environment should be just like kindergarten, allowing sixes as well as fives to learn in an activity-based program.

Fours and fives, on the other hand, have a harder time in mixed-age settings because of the completely active, outdoor, gross motor orientation of fours. They truly do need to spend the majority of their day climbing, swinging, digging and running!

Sevens seem to thrive when they are left alone. This "age of transition" is characterized by a need for privacy, by great sensitivity and often moodiness. The constant chatter and busy activity of sixes can be highly distracting to sevens.

Although sevens will often compare themselves negatively to more competent eights, they will still do better with older than with younger children in a mixed-age group. We have settled on a single second grade group, knowing that there will be sevens and eights in the class.

Third and fourth grade children (ages eight and nine) can work well in a mixed-age setting. The academic spread seems wide to many teachers, but we have also seen it work extremely well. Recently our teachers have chosen to spend one year with the third graders and then move with them to fourth grade. This way the teacher has the children for two years, but in single-grade groups.

Fifth and sixth grade groupings (ages ten and eleven) are highly effective and tend to make the struggles at school less intense for the eleven and new twelve year olds. The tens are more settled and school-compliant and can help provide a calmer, more reasonable transition into the middle school years for the older children.

Seventh and eighth graders (ages twelve and thirteen) also work well together in mixed-age settings, although the eighth graders tend to create their own space and privileges. They also can provide highly effective role models for the seventh graders who are generally less mature in their behavior. Jay Lord, a master middle grades teacher and co-founder of the Greenfield Center School, has long believed in the benefits of groups combining sixth through eighth grades. His experience shows that the older children provide even more useful role models for the sixth grade students.

Few middle schools (even those with "team" approaches) are yet utilizing even two year spreads in grouping children. Most, however, are finally grouping children heterogeneously instead of in homogeneous ability groupings.

## **Normal Differences in Development**

No matter how children are grouped chronologically or by grade, there will also always be a wide spread in normal developmental differences. A two year span in development is normal in any area of a child's development — physical, social, language or cognitive growth. Thus, a child who is ten years old chronologically may still be exhibiting social behaviors more typical of a nine year old. A five year old may display the physical prowess of a six year old. A seven year old child may be reading at a fifth grade level, but have trouble making friends like other seven year olds.

Personality plays a clear and often dramatic role in the way children move through developmental stages, too. Shy and quiet children will move through their childhood one way, loud and active children another. It is very important to remember that each child is an individual: his or her development will be unique even though it fits within a broad developmental pattern. The "yardsticks" in this book are not standards to be lived up to, but indicators to help guide the way.

## Racial and Cultural Considerations

As indicated in the Preface, most of the research on patterns of child growth and development which is easily accessible to parents and teachers is the result of studies of white children by white researchers, and much of that research is dated. This does not invalidate the storehouse of knowledge that has been gained from this work (which is the foundation for this book and many others), but it should encourage us to reach for additional data from research with other racial and ethnic populations.

Several variables affect the growth and development of African American, Latino, Asian, and Native American children in American schools and in general. Bertha Garrett Holliday has summarized into five categories the ways in which both the process and content of African American children's development differs from that of white children. It might be extrapolated that this is also true for other non-white children as well, although Garrett Holliday does not make such an assertion. This excerpt from "Developmental Imperatives of Social Ecologies" appearing in *Black Children* (see Bibliography) details her five categories:

1. The ecological structure of Black children's lives is more complex than that of white children. Black children's interactions with both Black and white communities result in their potential involvement in more settings.
2. Relationships between white and Black communities are defined by patterns of domination and subordination and punctuated by differences in values, social relations and institutional patterns. Therefore, Black children who must

interact with both communities, are confronted with more role requirements that are qualitatively more varied.

3. Variations in role requirements within Black and white communities coupled with systematic social barriers cause Black children to develop skills appropriate for effecting transitions within both white and Black communities as well as between the two. Black children therefore must develop more extensive behavior repertoires that must be demonstrated with greater flexibility in anticipation of more problematic situations.

4. Relationships between Black and white communities result in Blacks having less access to and reduced control of schedules and contingencies of reward. Consequently, Black children frequently are unable to predict if their efforts in problematic situations will be associated with success or failure. This lack of probability is double-edged in its developmental consequences. On one hand, it provides Black children opportunities for that kind of sweet success against the odds that undergirds exceptional competence. But it also provides them opportunities for that kind of unexpected, mystifying, paralyzing failure that overwhelms children and leads them to assume postures of stagnation, indifference and hostility.

5. Black children are older younger. Their experiences in bicultural settings encourage that kind of social-cognitive and behavioral precocity ("motherwit") that spurs earlier maturity and independence.

♦ ♦ ♦

While *basic* developmental expectations may be similar for all children in all cultures, Garrett Holliday clearly points out that African American children must face a much more complex array of developmental tasks as they grow up than white children. She also suggests that this "ecological structure" can have either a positive or negative impact on the course of development for African American children. In either case, African American children may present older social and adaptive behavior than their white counterparts. It's important to keep this in mind when reading this book and weighing developmental expectations for children in African American families.

The respected author of *Black Children: Their Roots, Culture and Learning Styles*, (see Bibliography) Janice Hale-Benson, in her own work and in surveying a number of studies, emphasizes that the disproportionately lowered achievement for African Americans (especially for African American males) is primarily a function of the way they are per-

ceived and treated by their teachers, rather than a function of home or community environment. Many researchers, she notes, have documented the fact that teachers expect more from and value the school behaviors



of white females, white males, Black females and Black males, in that order.

The difference between the culture of school and the culture of the African American family and community creates conflicting and often self-defeating messages for young students. Again, in reading the "Classroom Implications" for children at various ages as charted in this book, the reader is advised to take into account these critical warnings about racial and cultural bias in the school environment.

While I do believe that the general expectations and considerations I have described in this book apply to most children, I also firmly believe that there are a host of additional considerations and expectations that must be taken into account. It is incumbent on all teachers to become aware of these factors. I can recommend no better place to start than the work of Janice Hale-Benson.

## **Ability Grouping**

"Research has shown . . ." How many times have we read that statement and wondered, "Whose research? What other research shows just the opposite?" Nowhere is research more politically sensitive than in the field of ability grouping. The history of American education is filled with examples of the misuse of ability grouping in schools as a way to enforce racial and cultural separation and to reinforce the racial stereotypes discussed in the previous section.





CHERRY WYMAN-ON

## Tracking

Ability grouping, or "tracking" as it is more commonly known, has traditionally been the means of dividing children by "intelligence" and social class and determining which children would continue formal education through high school and beyond. Although the United States has the most universal education in the world, ability grouping often restricts children from further education rather than encouraging them.

Ability grouping is *extremely* detrimental to young children and a questionable practice at any age right through high school. In kindergarten through sixth grade, it has been common to separate children into different classes according to their basic reading abilities. Fortunately, many schools are finally moving away from this procedure. Such grouping tells

children right away what the pecking order is at school, who will make it and who won't, who is in, who is out.

The message is not subtle and it wrongly focuses on only one skill. Children with exceptional math ability or musical ability or scientific reasoning or artistic ability, but with low or merely slowly-developing reading ability are shuttled into low-ability tracks where their natural gifts are often depressed or disappear completely because those abilities are also taught at a pace for a lower track.

Some methods of ability grouping are still very common. In one form, called the "Joplin Plan," children are assigned to mixed-ability homerooms, but then go to different teachers for instruction, returning to their homerooms at the end of the day. In other forms, children go to different teachers as early as first grade for their reading and math instruction and then are separated into ability groups within these subject sections. This was popular in the 1950's and is reappearing in many schools at younger grade levels than ever before.

I also believe that the middle school model of grouping children by ability and moving them to new teachers every 50 minutes is contrary to the key developmental struggle of the age — the deep need for belonging and identity. Schools that are working on "team" grouping of students seem to me to be on the right track — one group of teachers works with 100-150 children through the entire school year. In these schools, teachers have greater flexibility in organizing the daily schedule. They can make time for trips, community service, cooperative learning projects and "advisories" or homerooms where students can work on social issues, student council, clubs and other peer activities.

Heterogeneously grouped, these teams (or "houses") establish a close identity of their own. They can encourage democratic values in students and work against the apathy and cynicism so prevalent at this age. Some high schools are also successfully utilizing this approach to school organization and heterogenous ability grouping.

## **Inclusion**

On the other end of the spectrum is the "inclusion" model. Special teachers or assistants are brought into the regular classroom to help children of various levels (both "gifted" and "remedial" or "disabled") and to help the regular teacher monitor progress. This plan has the greatest potential for respecting the self-worth of each learner. It also maintains the "primary caregiver" model where the lead teacher remains with her group of children for the majority of the day. In elementary school, this approach is certainly the most sensitive to the developmental needs of children in all aspects of their development — physical, social, and cognitive.

## **Retention**

The practice of "retention" (keeping children back a year in school) has been one of the most controversial subjects in education over the past thirty years. Today, it is commonly agreed that retaining a child because of academic failure and having them "repeat" the grade and subject material will usually not produce the desired results: catching up

academically and succeeding in school. Most of the research indicates failure for those children who do repeat. For those who repeat two years, the eventual outcome is often dropping out of school all together.

This practice has affected disproportionately large numbers of African American and Latino children. On the other hand, there are those children who, for developmental rather than academic reasons, will benefit by an extra year of school in order to progress with their social, emotional, and physical peers. This may be a small percentage of children, but there is no question that for them a longer period of maturation in school (as well as life) will be to their benefit.

Schools must be cautious about the way in which the determination for extra year placement is made and should involve parents every step of the way. An extra year in school should *never* be for purely academic reasons, no matter what the age. *If a child is retained for academic reasons, it is the school that has failed the child, not the other way around.* Academic differences can be accommodated in school much more easily than wide differences in developmental maturity. Although mixed-age groupings are currently popular, they aren't likely to be a viable solution if too wide of a range of developmental ages and academic skills are included. (See the section on mixed-age groupings)

The verb "retain" can mean to hold back or to hold safe. Educators and parents should carefully examine the difference when contemplating extra time in school for the individual child.



## Food

All children have a need for food beyond three square meals a day. In fact, children's needs for nourishment often seem to come at any time *except* the time scheduled for breakfast, lunch, or dinner. Early childhood educators have long recognized the need for preschool, kindergarten and early primary children to have a snack in school. Many of us fondly remember milk and straws and graham crackers from our earliest school years.

Many early childhood classrooms have moved beyond the practice of stopping the entire class at a certain time each morning for a half hour snack period. Instead, a snack table is set up in one area of the room and children learn to manage and regulate their own needs for a snack. The class accomplishes more during a morning without interruption, and snack becomes an integral part of the social and academic curriculum.

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All ages of children will benefit from having a snack (or snacks) in their school day. Unfortunately, snack usually ends in first or second grade, replaced with the rule: NO FOOD ALLOWED IN THE CLASSROOM. In fact, the lack of snack contributes to poor attention, concentration and attitude. The eight year old who becomes easily fatigued can bounce back with a little nourishment. The eleven year old who seems out of sorts can refocus on the task at hand after a handful of popcorn. Obviously, sweets and junk food are to be discouraged (or banned outright) because they can contribute to excess nervous energy. But it is counterproductive to prevent snacks for older children in school.

Some teachers simply tell children and parents that snack is allowed and can be packed with lunch. For those who take hot lunch, a snack can be packed separately. For those on low budgets, a bag of pretzels or some fruit goes a long way; for those on no budgets, teachers usually keep their own stash of pretzels in the closet. Rules and regulations are necessary to make eating in the classroom work, but when they are generated in cooperation with the children, they are rarely abused. If they are, snack can be removed for a few days and reinstated after a review of expectations.

The developmental issue is clear: food is a major ingredient in children's daily needs. Hunger does not follow a school schedule. A child's inability to pay attention may be rectified by a simple snack. As a parent or a teacher, the next time you pick up that mid-morning cup of coffee, think about your kids and the food policy at school. Parents can talk about the issue to the teachers and principal at school by placing it on the agenda of a school-wide PTO meeting. Principals can consult

lunch programs to see what kind of snacks can be provided under the law. State lunch program administrators can examine free breakfast and lunch policies and practices for possible adjustments.

## **Exercise**

I am amazed at the number of schools I visit where a morning or afternoon recess is a thing of the past. In many schools, children are lucky if they get twenty minutes of outdoor play each day. Formal physical education is often limited to one hour per week. Faculty and administrators say they place these severe restrictions on children's growing bodies because there is just too much work to do in school and not enough time to do it. In some locations, children are kept indoors because administrators say they can't guarantee children's safety on the playground. The "weather forecast" approach is common as well: a degree too cold or too hot, a drop of rain or a fine mist can bring the announcement over the PA system, "Teachers are advised that there will be indoor recess today."

Like food, all children need frequent exercise. Oxygen is food for the brain and nine year olds need it just as much as four year olds. Even a five or ten minute break to run around the school building or to jump rope in the side yard can make a huge difference in the way children feel and perform in the classroom. Even inside the room, a break to do "Head and Shoulders, Knees and Toes," aerobics to the record player, or five minutes of the latest dance craze can improve attention and attitude. Teachers need the physical exercise — we need



oxygen flowing to our brains, too! It helps make us more cheerful and engaging.

Sunlight and air are as important to our growth as to the plants and trees. If you teach in a school without windows, or your children attend one, insist that the children be taken outside at least twice a day. Many discipline problems in school can be traced directly to the lack of physical activity. Growing numbers of children diagnosed as ADD or ADHD (or other hyperactive labels) desperately need physical release in their school day. Academic proficiency will increase for these children (and all children) with an increase in physical activity, not the other way around.

## **The School Day**

Years ago, the brilliant educator Sylvia Ashton-Warner taught us about the daily rhythms of classroom life in her



classic book, *Teacher*. Today, our school schedules don't always pay close attention to the pace of childhood or the changing developmental needs of children. Consider, for instance, recess after lunch. Haven't we got it backwards? Doesn't it make more sense to work up an appetite, then have a quiet rest period after lunch, rather than eat and then go right out and run around? Schools that have reorganized their schedules to allow for this simple change find a difference in the behaviors and energy levels of their children in the afternoon.

At the Greenfield Center School, the demonstration/laboratory school of the Northeast Foundation for Children, a half hour quiet time follows lunch in most classes. Children are free to rest, read, draw, do homework, whatever they want — but they must do it by themselves and they may not speak or move around the room during this half hour. An active afternoon of learning follows.

We have also found that children from kindergarten to sixth grade work well in the morning in blocks ranging from a half hour to forty-five minutes, devoting themselves to different interests or subject matter in each block. But in the afternoon, longer and more leisurely stretches of time allow more productive learning. As in many other schools, the morning is usually devoted to writing, reading and mathematics, the afternoon to theme work (social studies and science).

In most schools, special subjects like art, music and physical education are confined to half hour blocks, but children would benefit from longer periods (just as they do in the afternoon for social studies or science). Limited budgets, lack of

personnel, and concentration on what are seen as "the basics" often diminish this possibility. In the Center School, there is no budget for special subject teachers. But longer periods for art, music and physical education are integrated into the thematic studies chosen by teachers at each grade level (see Curriculum section).

## Transitions

It is increasingly common to switch children from one teacher to another for reading, math, social studies, science — and it's usually the *children* who move from one room to another. From a developmental perspective, this is a questionable practice. Many middle school schedules look like a mini-high school.

Our experience indicates that the most important variable in a positive elementary school program is the constant attention of a single teacher/caregiver with whom the child can develop a predictable and meaningful relationship. As children reach the ages of eleven and twelve, peers become more important and teachers less important to the children. But especially in these first stages of independence, children need one teacher there as an anchor, as well as an object for rebellion.

As children work within our scheduled time blocks, we must be careful to honor the pace of childhood. We must not hurry children. This does not mean that we cannot stop them at the end of a period and move them on to another activity, but it does mean that we need to be sensitive to the way we help



MARLYNN CLAYTON

children move from one thing to another. "Hurry up children, it's time for gym; hurry up children, it's time for spelling; hurry up children, it's time for music." Early childhood expert Jackie Haines tells the story of one kindergarten teacher who knew she'd had enough when she heard herself say, "Hurry up children, it's time to rest."

A quiet, individual reminder for a seven year old can make all the difference in the world: "Don't forget, we have to be cleaned up for gym in five minutes." In kindergarten, a gentle bell sounds and the teacher says, "In five minutes we will be ending our working period. Think about what you need to do to be finished." It's important, in our distracted adult world, to remember that children become deeply absorbed in the important business of learning and growing. We need to help them manage this process rather than drag them helter-skelter through a hectic day.

Children's sense of time and their level of absorption varies with age. The familiar teacher's words, "Put your work down children, we'll finish that when we come back from music," will be met by different behavior at different ages. The sixes are likely to be quickly lined up and ready to go out the door (with their work still scattered at their desks) because they are six year olds and love to be first. The seven year old is likely to put up her hand and say, "Teacher, I've just got one more problem to do, can't I finish it?" The need for closure at seven often overrides the need to move on.

Being sensitive to these developmental differences can help teachers adjust daily schedules, especially the amount of time needed for transitions. This is also true for parents as they think about the time it will take to get out the door in the morning or get a bath and a story on the way to bed.

## **Child Care**

Many children are now in some form of child care away from their parents from early in the morning until 5 or 6 PM. Because of the changing nature of our society and the needs of families with a single parent or both parents employed, many schools are beginning to provide care after school. Again, a constant caregiver with a minimum of transitions should be the goal. In general, young children's sense of themselves in the world will be more stable and secure the less time they spend being shuffled from one setting to another.

## **Yearly Calendar**

As society changes, the school calendar is also coming under increased scrutiny. Today, we still use the agrarian calendar which worked so well for children and families when the major consideration was planting and reaping. But there is little question that it is of no practical use in American society today and, in fact, works against the best interest of children's academic growth and development. Most schools in the United States operate on a 180 day calendar. Children spend half a year in school and half a year . . . on vacation?

Twenty-four other countries have longer school years than we do. Japanese schoolchildren go to school 243 days a year, including half a day on Saturdays. Academic achievement may not be directly correlated to the amount of time spent in school -- there are many variables -- but we rank below most countries with longer school years on most standard measures.

Although there is a great deal of resistance to changing the school calendar, a growing movement for "year round school" is gaining momentum. It may begin to influence education if the few major experiments (largely in California) should prove successful.

## **Major Developmental Considerations**

There is wide agreement about certain patterns in children's growth and development. Most of these are credited to the

so-called "giants" in the field like Piaget, Gesell, Erikson, and Vygotsky. But these patterns have been validated over the years by numerous academic research studies, anthropologists studying children across the world and across time, and teachers and parents who have corroborated theory through the practice of teaching and parenting, scolding and loving. Pick up a good college text for an introductory course in child development, such as *Child Development* by Cole and Cole (see Bibliography) and these patterns will be defined in detail.

Theories change and are constantly questioned, as researchers gain new knowledge and understanding. Here are a few of the ideas that, thus far, have stood the test of time.

1. Children's growth and development follow reasonably predictable patterns. There are patterns in physical maturation, language acquisition, social behavior and cognition or thinking. These patterns have been broken down into defined stages in different ways according to particular theories. Each stage is defined by certain changes in growth patterns and ways of approaching the world that seem to be relatively universal.

2. Growth is deeply influenced by culture, personality and environment. No two children are the same, no two families, no two communities. While children may all go through predictable stages in the same order, they will not all go through them at the same rate. *Normal* differences in development can span two chronological years. Racial and cultural differences also influence development.

3. Development and intelligence do not proceed at the same rate. A very bright youngster can mature slowly in physical and social development. A child of average or below average "intelligence" may be ahead in physical and social development. Intelligence in music, mechanical ability, or the arts may move ahead of more traditional "intelligence" in common school learning.

4. Growth is uneven. Like the seasons, the tides, the turning of the earth on itself and around the sun, the birth and death of stars, the music of the universe — there is an ebb and flow to life that is mystical and spiritual. Babies are calm at one time of day, fretful at another. Children are more compliant and obedient at one age, more resistant and difficult at others. Learning seems to come in spurts and be followed by periods of consolidation. Sudden spurts of physical growth are obvious, and are followed by periods of little physical change. This shifting back and forth is a normal part of the life cycle and appears to continue into adulthood. Of course, changes are closer together in infancy and less frequent as we become older.

The "yardsticks" that follow combine research, theory and practice. They can help us understand what our children are going through without limiting them or burdening them with unrealistic expectations. Although the patterns are universal, each child is unique — each child a gift, each child a surprise.

# Yardsticks

All the world's a stage  
And all the men and women merely players;  
They have their exits and their entrances;  
And one man in his time plays many parts  
His acts being seven ages. At first the infant,  
Mewling and puking in the nurse's arms.  
And then the whining school-boy, with his satchel  
And shining morning face, creeping like snail  
Unwilling to school.

William Shakespeare, *As You Like It*, Act II, Scene vi





BETSY EVANS

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# Four Year Olds

*"Give me my Bunny!" he said  
"You musn't say that. He isn't a toy. He's REAL!"*

The Velveteen Rabbit  
*by Margery Williams*

When my own son was four years old we lived on a paved country road that saw occasional, but speedy traffic. One Saturday morning, a worried motorist knocked on the door. "Do you have a little boy and a dog? If you do, they're a half mile up the road and moving fast." The yard gate had been opened by intelligent fingers for the first time and boy and dog had made their escape into the world. Fortunately, we retrieved them safely, changed the gate lock, and continued our education of, and by, the four year old. Some parents lose exploring children between parked cars, out open windows or off fire escapes. Our story, too, could have had a different ending.

Fours are ready for everything. They are explorers and adventurers and are soaking up the world of knowledge with incredible speed. They are capable of almost nonstop mental

Four \_\_\_\_\_ 29



and physical gymnastics. Parents and teachers need vast amounts of energy to keep up with these young dynamos.

Four year olds are present in our public school classrooms, not just in prekindergarten and Headstart. Many school districts have policies that admit children who turn five before December 31 of a given school year. Thus, many kindergartens have children still four or four and a half when they enter kindergarten, and three or three and a half when they begin a

prekindergarten or Headstart program. Children at four demand school programs which are flexible, exciting and creative because they are flexible, exciting and creative creatures. They respond joyfully to dance, creative movement, outdoor play, and drama.

Children love to exaggerate at four. A tall tale about a villain who followed him home from nursery school may worry a parent or teacher, but not the four year old. Short attention spans match their short bodies. Headstart, prekindergarten *and* kindergarten programs must reflect this characteristic. Activity centers (or areas of the room) are generally arranged so fours can move from center to center or area to area across the room without a lot of traffic congestion. Four's vision looks toward the horizon, and these traffic patterns minimize accidents and knock-overs.

Paper and pencil tasks should be kept to a minimum for four year olds in preschool *and* in kindergarten. They learn best through their own play, by being read to, by acting out stories and fairy tales, by manipulating clay, paint brushes, finger paints, building blocks, math materials. Outdoor play is also essential for fours; they should spend at least a quarter of their school day in physical activity. This is an age where much learning is transmitted through the large muscles. *Learning goes from the hand to the head, not the other way around.* Teachers in four year old classrooms need to focus on observing and redirecting behavior, and asking questions that lead children toward the next level of cognitive exploration and understanding.

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## **The Four Year Old: Growth Patterns**

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**Physical**

- Vision in the far field, on the horizon
- Sometimes appear clumsy, awkward; spills and accidents common
- Hand and fingers an extension of whole arm; i.e., fine motor skills not dominant
- Fisted pencil grasp typical
- Enjoy much physical activity — running, jumping, climbing
- Can sit still for only brief periods

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**Social**

- Friendly, gregarious, chatty, "bubbly" age
  - Love working with their friends, but still much parallel play
  - Move quickly from one thing to the next, short attention span
  - Can make decisions based on interest; not overly dependent on adults, though obviously requiring their guidance
  - Like responsibility of a "big person" job (setting the table, folding the clothes, putting out the snack)
  - Older fours sometime fearful, worried; nightmares
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## The Four Year Old: Growth Patterns

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- Language**
- Expansive; enjoy using big words, trying out language
  - Bathroom language often evident, as well as other "swears"
  - Very talkative; likes to explain: ". . . and you know what, teacher? . . ."
  - Loves being read to
- 
- Cognitive**
- Learn best through play and exploration — "hand to head"
  - Like to imitate adult roles through imaginative play — dress-up, dramatic play
  - Music and rhythm, repeating patterns — simple learning strategies
  - Learn more through large muscles than small — i.e., hauling blocks, easel painting rather than paper/pencil task

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## **The Four Year Old in the Classroom**

***Headstart — Prekindergarten — Beginning Kindergarten***

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|--------------------------------------|---|
| <b>Vision and Fine Motor Ability</b> | <ul style="list-style-type: none"><li>• "Close" visual activity (reading, writing) kept to a minimum and for short periods</li><li>• Use whole hand to write, printing usually large</li><li>• <i>Never</i> have children copy from board</li></ul> |
|--------------------------------------|---|
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|----------------------------|---|
| <b>Gross Motor Ability</b> | <ul style="list-style-type: none"><li>• Learning through large muscle activity &amp; play</li><li>• Need climbing apparatus on the playground</li><li>• Easel and finger painting excellent for pre-writing; stand-up easel important for vision</li><li>• Big blocks, "hollow" blocks allow for construction using large muscles</li><li>• Tumbling is usually successful in phys. ed.</li></ul> |
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| <b>Cognitive Growth</b> | <ul style="list-style-type: none"><li>• Love being read to — individually, small groups, whole class; love to do their own "reading" in picture books</li><li>• Constantly reading the environment — label objects frequently seen or used (not all objects randomly)</li><li>• Manipulative experiences important in many areas of room — magnets, pullies in science area; puzzles, interlocking cubes in math; scoops, funnels, measuring cups in sand table, etc.</li></ul> |
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## The Four Year Old in the Classroom

*Headstart — Prekindergarten — Beginning Kindergarten*

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### **Cognitive Growth**

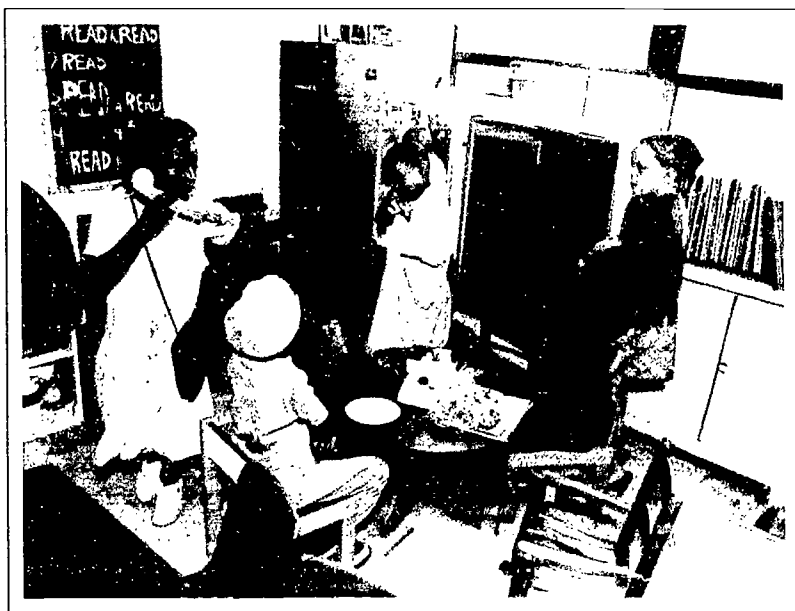
- Provide functional opportunities for counting such as attendance, milk count, boots and coats
- Don't expect children to stay in one area of room for extended time — learning is speedy.
- Do expect clean-up at the end of work period, but model expectations (i.e., Montessori's "practical life" activities)

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### **Social Behavior**

- Learn from modeling; need chances to practice new or appropriate behavior
  - Easily redirected from inappropriate behavior; teacher language all important to help children to use language instead of physical reaction — "Use words," "Tell her what you want," "Ask if he is through," etc.; small dramas and role plays help teach social skills
  - Love to learn to work together, although parallel play may continue for younger fours; "Who's the boss?" often the major developmental issue; can learn basic mediation skills, but "It's the rule" works wonders
  - Roughhouse play on the playground needs teacher redirection and modeling of appropriate behavior
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CHERRY WYMAN

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# Five Year Olds

*"Ramona loved Miss Binney so much she did not want to disappoint her. Not ever. Miss Binney was the nicest teacher in the whole world."*

Ramona The Pest  
by Beverly Cleary

After a busy morning in an overly academic kindergarten, a five year old boy marched up to his teacher's desk, put his hands on his hips and announced, "You don't seem to understand, teacher, I just came here to eat and play!" Nothing could better characterize the developmental needs of the five year old. (Thanks to my colleague, Sue Sweitzer, for this story years ago.)

Gradually our kindergarten and first grade programs are beginning to respond. The advent of "developmentally appropriate programs" means that at least in kindergarten and early primary grades, children are getting the opportunity to play and learn in ways that respond to their levels of growth.

Learning is at its best for the five year old when it is both structured and exploratory: structured through a clear and predictable schedule; exploratory through carefully constructed

## Five

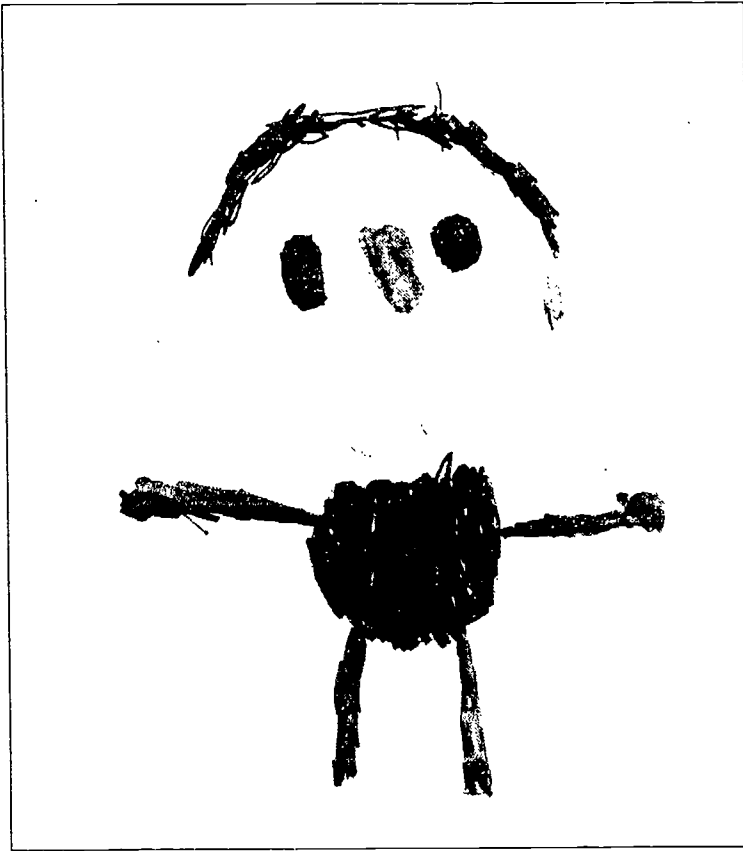
interest areas where children can initiate their own activity. The best teachers observe learning activities and create teacher-directed instruction to complement the children's interests and meet the learning expectations for the age.

Children move through two distinct developmental phases during the kindergarten year — one of caution, literalness and general compliance; a second of experimentation, oppositional behavior, and uncertainty. Some of these changes can be attributed to changing physical characteristics such as visual and perceptual changes (as in letter and number reversals). Others are related to changing cognitive patterns as children move from pre-operational learning, bounded by the senses, to new and more complex thinking patterns. This shift creates tension and disequilibrium.

Although many children have now been in social settings with peers outside the home for several years, kindergarten remains a time of immense social interest. Children love to explore the world of "real school" together. Fantasy play, dress-up, housekeeping, and puppets continue to be essential arenas for growth and development.

Five, overall, is a time of great happiness. Life is "good," says the five year old. A primary objective in life seems to be to please significant adults. Fives are constantly asking, "Mom, can I set the table? Can I put away the socks?" At school five year olds also ask permission. "Teacher, can I use these markers? Teacher, is this how you do it? How much can I use, teacher?"

The five year old needs the release of the adult to make transitions, move from task to task. Fives are literal and usually



accept adult rules as absolute and unbendable. In *Ramona the Pest* (see Bibliography), Ramona wouldn't budge from her seat the first day in kindergarten because her teacher told her to "sit here for the present." Ramona was sure she was going to get a present, not that she should sit in her place for *now*.

Children's vision is most easily focused on objects near to them. They become engrossed in the details of a block construction or a complicated painting. Because they lack the

## Five

ability to sweep their eyes laterally, left-to-right and right-to-left, across a printed page with ease, most five year olds are not ready for formal reading instruction.

The young five year old seems in a period of consolidation, resting from the exuberant, somewhat wild behavior of four. At four the child exaggerated, told long stories, talked constantly and was always in motion. At five, they are a little calmer, more literal and exact. One word answers — “good” and “fine” — replace elaborate explanations. Parents may be frustrated with fives when they try to get answers to the question: “What did you do in school today?”

Five year olds are not selfish, but are at the center of their own universe and often find it hard to see the world from any other point of view. It may be impossible for children to complete a given task except in the one way they know — their way. They often have trouble expressing empathy if a conflict affects them directly — sharing their toys or space — but if a classmate across the room is crying, a crowd of caring fives may gather.

Typical behavior changes as children move through their fifth year. Visual and auditory confusions commonly show up in reversals of letters and numbers. The child is not sure which way things go and says so. “Yes and no” replaces “Yes!” An emphatic “NO” may remind us of the “terrible two’s.” Children are testing the limits they were so comfortable with a few months ago. Earlier in the year it was easier to sit still and listen. Now there are wiggles and complaints and it’s not uncommon to see children falling sideways out of their chairs. (At six, they often fall over backwards.)

As children move toward six, their language becomes more differentiated and complex. They like to explain things and like to have things explained to them. Their behavior also becomes more complex. Children can play well one moment and argue the next. They may delight in independent activity or become instantly dependent on adult intervention. Sometimes they dawdle, sometimes they rush. Initiative drives them forward. The more they can do on their own, the stronger they feel. However, failure at any task may produce a strong sense of guilt. The balance between initiative and guilt provides the child with a feeling of purpose and worth. This purposefulness allows them to venture into a lengthy period of industriousness between the ages of six and eleven.

It is especially important to remember that five year olds do not think the same way about the world as adults do. Cause and effect are not explained through logic, but rather through intuition. Thought which appears illogical can be considered pre-logical — I go to sleep because it's night. Bound by the senses, restricted to what they can see, children must act on one thing at a time. The best kindergarten teachers know that they, too, must focus on one thing at a time, keeping expectations clear and simple.

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## **The Five Year Old: Growth Patterns**

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### **Physical**

- Vision focused on objects close at hand
- Centered on task
- Gross motor control improving
- 3-fingered pincer grasp with pencil
- Falls out of chair sideways
- Paces self well
- Active but can control physical behavior

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### **Social**

- Likes to help; cooperative, wants to be "good"
- Likes rules and routines
- Needs approval
- Dependent on authority; wants to be told what to do, but also finds it difficult to see things from another's viewpoint

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## The Five Year Old: Growth Patterns

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- Language**
- Literal, succinct
  - "Play" and "good" favorite words
  - Needs release from adult "Can I . . . ?"
  - Fantasy is more active, less verbal
  - Often does not communicate about school at home
  - Thinks out loud

- 
- Cognitive**
- Likes to copy
  - Literal behavior; often only one way to do things
  - Bound cognitively by sight and senses
  - Animistic (inanimate objects have life, movement)
  - Learns best through play and own action
  - Does not yet think logically



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## **The Five Year Old in the Classroom**

### ***Kindergarten — First Grade***

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#### **Vision and Fine Motor Ability**

- Tend to focus on one word at a time because visual tracking (left to right) not fully established
- Difficulty copying from blackboard or chart stand
- Beginning readers often need pointer or finger to keep place
- Reversals of letters and numbers (though few) need to be accepted, not corrected
- Manuscript printing can be *introduced*, but children should not be expected to stay within lines
- Difficulty spacing letters, numbers, and words; may need to use a finger to separate words

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#### **Gross Motor Ability**

- Continued need for a great deal of active outdoor and indoor physical activity
- Good age for structured games — "Duck, Duck, Goose," "Red Light, Green Light," etc.

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#### **Cognitive Growth**

- Repetitive behavior maximizes learning — repeat stories, poems, songs, games, sometimes with minor variations; patterning in math, science and daily scheduling important
  - Encouragement an important release for children to move on to next task
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## The Five Year Old in the Classroom

### *Kindergarten — First Grade*

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**Cognitive  
Growth**

- Some become stuck in repetitive behavior (i.e., infinite rainbows and flowers) for fear of making mistake when trying something new
- Learn best through active exploration of concrete materials — blocks, manipulatives, paint, arts and crafts, sand and water, etc.
- Children are seldom able to see things from another's point of view.

**Social  
Behavior**

- Can work at quiet, sitting activities for 15-20 minutes at a time
- Often need teacher's release to next task, though able to pace themselves within a given task
- Consistent guidelines, carefully planned periods help children feel safe
- Expect, allow children to think out loud — "I am going to move the truck!" precedes the action
- Dramatic play (housekeeping corner or dramatic play area) essential to language development; children can express thoughts through action
- Teacher modeling, directed role play provides chances to learn and practice language skills

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## **Changes as Children Move Toward Six**

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### **Physical**

- Visual and auditory confusion
- Reversals common
- Physically restless
- Awkward fine motor skills
- Variable pencil grasp
- Tilts head to nondominant side
- Hand "gets tired" from firm grip
- Often stands up to do work
- Tires quickly

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### **Language**

- Equivocates — sometimes yes, sometimes no
- Elaborates and differentiates in answer to questions
- Verbal answers may not equal cognitive understanding; more words than ideas
- Auditory reversals (answers first what was heard last)

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## Changes as Children Move Toward Six

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**Social**

- Oppositional, not sure whether to be good or naughty
- Insecure with feelings
- Testing authority, limits
- Tentative
- Complains
- Temper tantrums; striking out
- Wonderful at home, terrible at school; or vice-versa

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**Cognitive**

- Begins to try new activities more easily
- Makes lots of mistakes; recognizes some
- Learns well from direct experience

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## **The Older Five Year Old in the Classroom**

### ***Kindergarten or First Grade***

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Many of the characteristics of five, of course, carry over as children move toward six. Increasingly unsettled behavior, however, is evidence of growth and change.

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- Vision & Fine Motor Ability**
- Printing tends to be less neat than at five and with more reversals
  - "Pencil grips" sometimes help children with overly firm grasp
  - Reversals of letters and numbers at their peak; reading and writing tasks can be extremely difficult and frustrating
- 

- Gross Motor Ability**
- Need a good deal of physical activity; relaxed games or free play outside necessary because attention not always focused in structured gym class
  - Tire quickly, sometimes necessitating shorter work periods than at five
-

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## **The Older Five Year Old in the Classroom**

### ***Kindergarten or First Grade***

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**Cognitive  
Growth**

- Language still initiates action; begin to explain in more detail
- Need many avenues for children to express what they know — blocks, paints, arts and crafts, etc.
- Allow children time to try out their own ways of doing things even when they sometimes get wrong answers; constantly validate children's initiative

**Social  
Behavior**

- Consistent rules and discipline even more necessary than at five; harsh discipline (especially for mistakes) can be devastating because children are testing limits more
- Teacher's use of frequent questioning and redirecting works better now than at five



CHERRY WYMAN

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# Six Year Olds

*"But now I am six, I'm clever as clever.  
So I think I'll be six for ever and ever."*

Now We Are Six  
by A.A. Milne

One of my favorite children's books about school is by Miriam Cohen with pictures by Lillian Hoban (illustrator of *Bread and Jam for Francis*). The book is called *First Grade Takes a Test* and in it the children are confounded by the experience of taking a timed test for the first time. They have to keep still, answer questions without help from their friends and finish within a specified period of time. There are several hilarious examples of six year old thinking which show that sixes are not at all ready for formal testing. In my favorite:

"On the test there was a picture of Sally and Tom. Sally was giving Tom something. It looked like a baloney sandwich. Underneath it said:

- ☐ Sally is taller than Tom.
- ☐ Tom is taller than Sally.

Jim wondered what being tall had to do with getting





a baloney sandwich. And was it really a baloney sandwich? It might be tomato . . . Jim took a long time on that one."

Six is an age of dramatic physical, cognitive and social change. Tooth eruption is continuous; teachers find chewed pencils, papers and workbook corners in the first grade. Visual development is maturing, allowing for easy introduction of beginning reading tasks. Rapid physical

growth is mirrored in rapid physical activity. Children are constantly in a hurry, rushing to be finished. They love to do their assignments, but are decidedly more interested in the process than in the product. Schoolwork tends to be sloppy or erratic. There is great interest in being first, in doing the most work, or in the opposite extreme. Children who can't be first may gladly be last; dawdling can be a favorite pastime. Along with great bursts of energy go periods of fatigue and frequent illnesses.

The importance of friends now rivals the importance of parents and teachers in the child's social development. Classrooms full of six year olds are busy, noisy places. Talking, humming, whistling, bustling are the order of the day.

"Industrious" describes the overall behavior of the child at six. S/he is now as interested in school work as spontaneous play. Children delight in cooperative projects, activities and tasks. No job is too big, no mountain too high. However, their eyes can be bigger than their stomachs or skills, and sixes risk an overpowering sense of inadequacy and inferiority as they tackle new frontiers. Teachers and parents need to remember that, at this age, the process is more important than the product.

The child is ordering and structuring the world in new ways. An ounce of encouragement for the six year old produces a radiant smile, hugs and excitement. An ounce of condemnation can produce tears, pouting and withdrawal. A teacher's words, tone, and body language all have a great effect on six year olds.



CHERRY WYMAN

It is at six that most children begin a major transition in their intellectual growth. The child now begins to approach the world more logically. Concepts begin to be organized in a symbolic manner through understandable systems and approaches. When they are younger, children are unable to accommodate an adult view of reality and generally don't understand adult explanations of cause and effect (although they may be accepted without challenge).

The beginning of reasoning is marked by the child's ability to identify differences, compensate for these differences and reverse an idea through mental activity. In one classic example of Piaget's, two equal balls of clay will be seen as equal quantities even after one is rolled out into a clay "snake" and compared to the ball by the six year old. Younger children, able

to hold onto only one idea at a time, will see the "snake" as containing more clay because it is longer.

The difference between the five and six year old can be striking. The shift in cognitive development is accompanied by a shift in reasoning, an understanding of cause and effect in the natural world (e.g. what makes the clouds move) and a widening vision. Sixes can begin to see another's point of view and consider rules and conduct with greater objectivity.

In many ways this is a key moment, a turning point, an open door. At six, the child is extremely open, receptive to all new learning. The eagerness, curiosity, imagination, drive and enthusiasm of the six year old is perhaps never again matched in quantity or intensity during the life span.

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## **The Six Year Old: Growth Patterns**

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### **Physical**

- Good visual pursuit for reading
- More aware of fingers as tools
- Sloppy; in a hurry; speed is a benchmark of 6
- Noisy in classroom
- Falls backwards out of chairs
- Learning to distinguish left from right
- Oral activity (teething) — chews pencils, fingernails, hair
- Easily tires; frequent illnesses
- Enjoys out of doors, gym

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### **Social**

- Wants to be first
  - Competitive; enthusiastic
  - Sometimes a "poor sport" or dishonest; invents rules
  - Anxious to do well, but does a lot of testing
  - Any failure is hard; thrives on encouragement
  - Tremendous capacity for enjoyment; likes surprises, treats
  - Can be bossy, teasing, critical of others
  - Easily upset when hurt
  - Friends are important (may have a best friend)
  - School replaces home as most significant environmental influence
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## The Six Year Old: Growth Patterns

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- Language**
- Likes to "work"
  - Likes to explain things; show & tell is useful
  - Loves jokes & guessing games
  - Boisterous & enthusiastic language
  - Complainer
- 
- Cognitive**
- Loves to ask questions
  - Likes new games; ideas
  - Loves to color; paint
  - Learns best through discovery
  - Enjoys process more than product
  - Tries more than can accomplish (eyes bigger than stomach)
  - Dramatic play elaborated
  - Cooperative play elaborated
  - Representative symbols more important
  - Spatial relationships & functional relationships better understood
  - Beginning understanding of past when tied closely to present
  - Beginning interest in skill & technique for its own sake
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## **The Six Year Old in the Classroom**

*First Grade or beginning Second*

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- |                                      |   |
|--------------------------------------|---|
| <b>Vision and Fine Motor Ability</b> | <ul style="list-style-type: none"><li>• Should do little copy work from blackboard; will comply if asked, but a difficult task</li><li>• Spacing and ability to stay on the line are difficult, inconsistent</li><li>• Tracking ability now makes reading instruction manageable</li></ul>  |
| <hr/>                                |   |
| <b>Gross Motor Ability</b>           | <ul style="list-style-type: none"><li>• Allow a busy level of noise and activity; children often work standing</li><li>• Encourage a slower pace or limit work to enhance quality</li></ul>   |
| <hr/>                                |   |
| <b>Cognitive Growth</b>              | <ul style="list-style-type: none"><li>• Games of all sorts are popular and useful — games, poems, riddles, and songs delight and illuminate; teaching through games produces stronger learning patterns than workbook learning</li><li>• Artistic explosion — clay, paints, dancing, coloring, book making, weaving, singing tried out seriously for first time; children need to feel their attempts are valued, that there is no right and wrong way to approach an art medium; risk-taking now enhances later artistic expression &amp; competence</li></ul> |
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## The Six Year Old in the Classroom

*First Grade or beginning Second*

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### **Cognitive Growth**

- Expect high volume of products but low quality of completion — children are proud of how much they get done, but not concerned with looks
- Pay attention to children's delight in the doing (especially for themselves) — includes academics, clean-up or snack; ready for experiments with individual and group responsibility
- Social Studies content must be connected to here and now; field trips immensely popular, productive when followed by representational activities such as experience stories, work in blocks; children can only begin to understand past events (history) when closely associated with present

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### **Social Behavior**

- Extreme behavior needs to be understood but not excessively tolerated; tantrums, teasing, bossing, complaining, tattling are ways sixes try out relationships with authority
  - Extremely sensitive — an ounce of encouragement may be all a child needs to get over a difficult situation, severe criticism can truly injure
  - Take the competitive edge off games when used for learning; sixes are highly competitive and can overdo the need to win and be first
-





GREENFIELD RECORDER

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# Seven Year Olds

*"On a bicycle I traveled over the known world's edge,  
and the ground held. I was seven."*

An American Childhood  
by Annie Dillard

An Upper Primary teacher at the Greenfield Center School, Bob Strachota, has devised a way to teach soccer to seven year olds that shows a clear understanding of the age and a streak of genius. The field is divided into three equal sections — a midfield and two goal zones. The class of 20–22 youngsters is first divided in half to make two teams and then each team is divided into thirds, with a third from each team placed in one of three sections of the field. Thus, three to four players on each team are restricted to their third of the field. The play is fast and furious in each section, but as soon as the ball passes over a section line, the players in that section must only watch as play is passed on to the next section.

This restriction of play responds, almost poetically, to the inclination of the seven for restriction, a direction governed by self-absorption and self-consciousness. "Sevens soccer" at

## Seven

the Center School has allowed all sevens to experience a measure of success on the playing field. Without these clear boundaries, many would have chosen to avoid the risk or withdraw all together. The others would dominate the field and show off for anyone watching.

In fact, sevens can be extremely moody, sulking and sometimes depressed. They are often content to spend long periods in their rooms, alone by choice, reading or listening to records or playing with animals or dolls. At school, too, they like to work by themselves and appreciate quiet corners for reading or working. They also like working with a best friend, although relationships may be on one day and off the next.

This is an inward, consolidating period of growth. Visually children exhibit myopic tendencies and concentrate on the details in their visual field. Their tiny printing is anchored to the baseline of the paper, their finger grip down on the lead of the pencil, their heads down on their arms or desk as they write, sometimes with one eye closed. Because of their visual concentration, sevens have great difficulty copying from the board and this task should be minimized. They do have a good working concept of right and left and general directionality.

Sevens are hard workers and often perfectionists. Where sixes are fond of the pencil sharpener, sevens adore the eraser. If they make mistakes they will erase and erase, sometimes putting a hole right through the paper. They want to be correct and they want their work to look good, too. Because of this tendency, they take a long time with everything they do and get very upset when they aren't given enough time to finish their work. Timed tests can be extremely upsetting.



If you schedule a class of seven year olds to take a spelling test at the end of the week, requesting that they spell the words correctly in their best handwriting, you are almost guaranteeing failure. They are capable of their best work in spelling *OR* in handwriting, but not both at the same time.

Sevens love the routine and structure of school and appreciate their personal relationship with the teacher. Substitute teachers often feel frustrated with sevens because they are constantly being told "That's not the way Teacher does it!"

In the classroom, sevens are good listeners and still enjoy being read a story. They show great interest in new words,

Seven \_\_\_\_\_ 6.3

## Seven

number relationships and codes. They like working and talking with one other person (in board and card games, on puzzles) but don't always do well on group projects.

At six, children are noisy, verbal, active and brash; at seven, quieter, specific, passive, and sometimes tense. Sevens' industriousness is now concentrated on individual work. They hone in on what they can do and practice it over and over. If someone copies their work, the seven year old can become extremely upset. Music lessons, often introduced at this age, can be both rewarding and frustrating.

"I quit!" is often heard at home and on the playground, but it's not because they don't get their own way, although that's a frequent interpretation. They may walk away from a group game or a family project because of an overwhelming feeling of inferiority. Sevens' feelings need to be protected. Teasing, joking and especially sarcasm is painful to the seven year old. Being laughed at for a wrong answer or a "silly" idea can produce anger and tears.

At six, a child might respond to these feelings with a punch. Seven year olds are more apt to drive these feelings deep inside, and are less apt to risk themselves the next time they are called on or asked to do something. They are hypersensitive to physical ailments as well, both real and imagined.

Seven is an age where children are driven by curiosity and a strong internal desire to discover and invent. As they consolidate logical thinking, they begin to organize their internal mental structures in new ways. Now they can classify spontaneously: "Black bear, brown bear, grizzly bear, koala bear," they chant

excitedly. They are intensely interested in how things work and love to take things apart and put them back together again, if they can. Working in a block corner holds as much fascination for the seven as for children at younger ages. Interlocking blocks and other small manipulatives are favorites and sevens delight in making miniature accessories for their block structures or social studies dioramas.

Sevens are beginning to deal with concepts of time, space and quantity with increased sophistication. While they must still act directly on their environment for understanding, they are increasingly able to represent their understanding symbolically in writing and drawing. Writing can be a favorite activity when children are given extended periods to create their own stories and narratives.

Science and social studies take on new meaning as sevens show increasing interest in the world around them. This interest will continue to expand and differentiate through ages eight, nine and ten. Study and understand the child's city or town before using textbooks to examine desert or mountain villages in foreign countries!

The child's increasing ability to do math without manipulatives, to infer, predict and estimate makes mathematical concepts particularly accessible at this age.

Seven is an age of intensity. Individualized activity consolidates new internal structures and feelings. A balance between hard work and self-assessment produces a sense of competence, setting the stage for greater self-direction at older ages.

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## **The Seven Year Old: Growth Patterns**

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### **Physical**

- Visually myopic
- Works with head down on desk
- Pincer grasp at pencil point
- Written work tidy, neat
- Sometimes tense
- Likes confined space
- Many hurts, real and imagined

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### **Social**

- Inwardized, withdrawn
  - Sometimes moody; depressed; sulking or shy
  - Touchy
  - "Nobody likes me"
  - Changeable feelings
  - Needs security, structure
  - Relies on teacher for help
  - Doesn't like to make mistakes or risk making them
  - Sensitive to others' feelings, but sometimes tattles
  - Conscientious; serious
  - Keeps a neater desk, room
  - Needs constant reinforcement
  - Strong likes and dislikes
-

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## **The Seven Year Old: Growth Patterns**

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**Language**

- Good listener
- Precise talker
- Likes one-to-one conversation
- Vocabulary development expands rapidly
- Interested in meaning of words
- Likes to send notes
- Interested in all sorts of codes

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**Cognitive**

- Likes to review learning
- Needs closure; must complete assignments
- Likes to work slowly
- Likes to work alone
- Can classify spontaneously
- Likes to be read to
- Reflective ability growing
- Erases constantly, wants work perfect
- Likes to repeat tasks
- Likes board games
- Enjoys manipulatives
- Wants to discover how things work; likes to take things apart



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## **The Seven Year Old in the Classroom**

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**Vision and  
Fine Motor  
Ability**

- Printing, drawing, number work tend to be small, if not microscopic; work with head down on desk, often hiding or closing one eye
- Copying from the board can be harmful
- Not the time to introduce cursive handwriting
- Printing and drawing anchored to bottom line; difficult to fill up space
- Often work with 3-fingered grasp at pencil point and find it difficult to relax grip

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**Gross Motor  
Ability**

- Plan for quieter room; sustained, quiet work periods with little overflow behavior
- Prefer board games to gym games; playground games (jump rope, 4 square, hopscotch) become more popular than team or large group activities

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## The Seven Year Old in the Classroom

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**Cognitive  
Growth**

- Pay special attention to routine and children's need for closure — want to finish work they begin, need a warning to prepare for transitions; timed tests can be especially troublesome
- Like to work by themselves or in two's; memorization popular along with codes, puzzles and other secrets
- Want their work to be perfect; classroom attention to products, proper display of work is entirely appropriate
- Children enjoy repeating tasks, reviewing assignments verbally with teacher; like to touch base frequently with teacher
- "Discovery" centers or projects often successful; like to collect and sort

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**Social  
Behavior**

- Frequent friendship shifts; children work best in pairs or alone; accept teacher seating assignments
  - Schedule changes upsetting; plan well for substitutes
  - Moderate seriousness of classroom with humor and games
  - Communication with parents often critical during this changeable age
  - Anxiety about tests, assignments, recess can produce physical complaints.
-



CHERRY WYMAN

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# Eight Year Olds

*"Mothers for miles around worried about Zuckerman's swing. They feared some child would fall off. But no child ever did. Children almost always hang onto things tighter than their parents think they will."*

Charlotte's Web  
by E.B. White

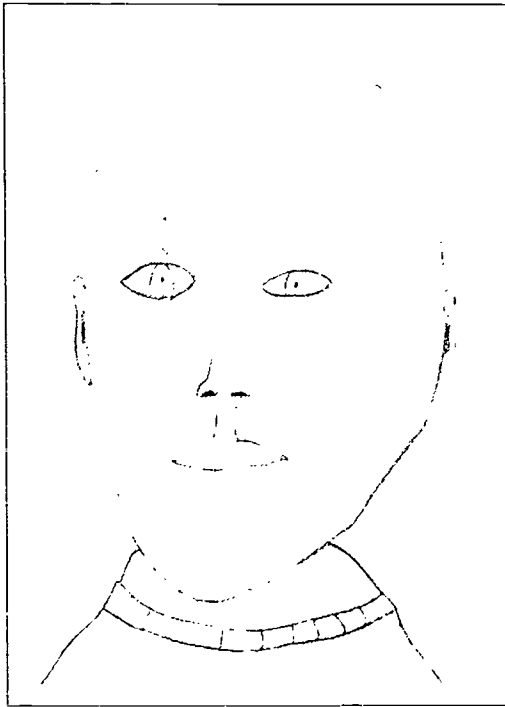
"Teacher, we have a great idea!"

Watch out! Here come the eight year olds — full of energy, imagination and little sense of their own limits.

"We have this great idea to do a play about Rosa Parks and we have all the clothes at home and we're going to bring them in tomorrow and we can use your desk for the bus, and we can make tickets and charge admission and we'll put it on tomorrow . . . OK?"

There's no thought of a script, assigning parts, rehearsal schedules, the hard work of learning lines, practice, costumes, set, and finally production. It's all a blur of enthusiasm tempered by only a vague understanding of how things get done.

## Eight



The job of the second or third grade teacher is to harness that energy and give it some direction and focus. Teachers need to help children cut work down to bite-size pieces throughout the year. This includes homework assignments, which should never be longer than a half-hour in duration and should be limited in scope and expectations. Children at this age need to experience “incremental success” in their school work — success in gradually increasing quantities and levels of complexity — so they will continue to be motivated and excited.

Eight year olds tend to gravitate toward their own gender when making choices about working and playing with others. On the playground, the waves of boys chasing girls or girls

chasing boys at recess are often eight year olds. Boys especially tend to be fascinated by the world of "smutty" jokes at this age, but both boys and girls enjoy virtually any kind of humor, including riddles, limericks, and knock-knock jokes.

A key developmental struggle is gaining competence over the tools of their trade. At school, this means industrious efforts in such areas as handwriting, handcrafts, computer skills, drawing and sketching, and simple geometry. But when accomplishments don't come easily or quickly, there is a strong sense of inferiority. Patience is not common in eight year olds. Again, assignments in handwriting or spelling, for instance, need to be short and to the point. Drafts of children's work as well as beautiful, finished work should be liberally displayed in the classroom so that children can see the range of effort required to make progress toward mastery in a certain area. Children also benefit by graphing or charting their progress in certain areas so that the teacher can combat that feeling of "I'll never get this . . . i'll never be able to do this."

"I'm bored!" is a common complaint of the eight year old. Adult translation: This is too hard! Look beyond these words to what they are showing you in their work. Redirection and encouragement go a long way; criticism can be devastating.

Often, parents and teachers lament about an eight year old, "He could do it if he only tried. He's lazy and unmotivated. He never sticks to any one thing for more than a day." The eight year old is actually exploring his potential. He is struggling with feelings of inferiority as he tries out one new area after another in an expanding awareness of the broader world. This uncertainty will hit a peak at nine.

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## **The Eight Year Old: Growth Patterns**

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**Physical**

- Speedy, works in a hurry
- Full of energy
- Needs physical release, outdoor time
- Somewhat awkward
- Attention span limited
- Vision strong in near and far

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**Social**

- Gregarious, humorous
- Likes to work cooperatively
- Often "bites off more than can chew," overestimates abilities
- Resilient; bounces back quickly from mistakes
- Prefers same gender activities
- Trouble with limits and boundaries
- Friendship groups often include more children than at seven

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## **The Eight Year Old: Growth Patterns**

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**Language**

- Talkative
- Listens, but so full of ideas cannot always recall what has been said
- Exaggerates
- Likes to explain ideas
- Vocabulary expands rapidly

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**Cognitive**

- Engrossed in activity at hand; loves to socialize at same time
- Likes groups and group activity
- Very industrious
- Often works quickly
- Concrete operations solidifying
- Basic skills begin to be mastered
- Begins to feel a sense of competence with skills



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## **The Eight Year Old in the Classroom**

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**Vision and  
Fine Motor  
Ability**

- Acuity and control come together; appropriate time to focus on cursive handwriting — children love to practice, but product often sloppy
- Pencil grasp should now be "adult"; if not, a "pencil grip" may still be needed to help correct habits
- Can copy from board and handle increasingly complex (but not lengthy) assignments

**Gross Motor  
Ability**

- Often a "growth spurt" — restless and need lots of physical activity; short exercise breaks (even in the classroom) help concentration
- Love group games on the playground; gravitate toward same gender activities, so teacher should lead outdoor games for whole class (tag games, etc.)
- Play hard and often exhaust themselves in short time; several short play breaks more productive than one long one

**Cognitive  
Growth**

- Very industrious, but often exaggerate ability, have trouble knowing limits; teachers can shorten (rather than lengthen) assignments; success in small doses builds confidence

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## **The Eight Year Old in the Classroom**

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**Cognitive  
Growth**

- Love to work cooperatively, most productive in groups; enjoys responsibility — though not always successful
- Interest in process and product of school work; peers' assessment of work as important as teacher's
- Work usually well organized, though tends to be sloppy; need teacher assistance with organizational strategies, especially on tasks such as math papers copied from textbooks
- Growing interest in rules, logic; keen interest in how things are put together, how they work; interest in natural world and classification
- Tire easily, may give up temporarily on hard assignments, but bounce back quickly

**Social  
Behavior**

- Classroom organization should feature desks in groups, or groups at tables; teacher should change groupings frequently through the year
  - Respond to class projects and traditions which build a sense of unity and cohesion
  - Gender issues become more important
  - Fairness issues, growing sense of moral responsibility beyond self; arguing
  - Respond to studies of other cultures, stories that concern fairness, justice
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ELLEN POLANSKY

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# Nine Year Olds

*"My ninth year was certainly more exciting than any of the others.  
But not all of it was exactly what you would call fun."*

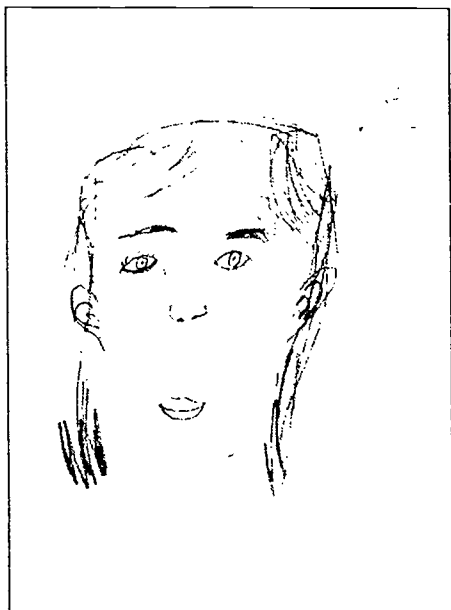
Danny the Champion of the World  
*by Roald Dahl*

"I hate living in Greenfield! It is so boring! It isn't a city town. It isn't a country town either. It isn't a suburb town and it isn't the kind of town you'd visit your Aunt Mabel in. It is a medium sized town with a few country back roads, a few corner stores, a few movie theaters, some restaurants and many houses. It doesn't sound too bad you say? It is. The trouble is there's nothing to do! The most exciting thing that's ever happened to me in Greenfield was a train derailment. And it turned out o.k. You see, if you go to Boston you have the swan boats, you go to California, you have the beach, you go to Greenfield you have . . . . um-um . . . see what I mean. That's why I wish Greenfield were better." (Thanks to Kate Arsenault — now a young adult!)

I've never forgotten this essay with its exclamation marks and sardonic humor as a benchmark of the often confused and

Nine \_\_\_\_\_ 79

## Nine



troubled age of nine. The enthusiasm of eight often turns into dark brooding and worrying at nine — worrying about world events, about the health of parents, about moving away, about losing best friends, about changing schools. Teachers engaged in “writing process” note these thinly veiled themes again and again in fiction writing.

Sometimes the deep seriousness of these social concerns can bring a twinkle to the adult eye. One nine year old worked diligently on her protest poster on a Saturday morning: “Save the Elephants — Ban Ivory Soap.”

Nines complain about their aches and pains, their cuts and bruises and their hurt feelings. Nail biting, hair twisting and other outlets for tension are common. Test taking can be a disaster, and it's easy to hypothesize about the well-known dip in fourth grade test scores and the anxiousness of nines. The best test takers are the risk takers in the world; nines are anything but good risk takers.

Teachers at this level see children finish their tests early simply because they put down any answer, rather than think through what they know. Others get only halfway through because they get stuck trying to figure out one right answer,

refusing to be wrong. Nines need many opportunities to practice test-taking before the real thing — modelling and role-playing can defuse the anxiety created by tests.

Compared to younger and older schoolmates, nines tend to learn better on their own as they gain mastery of basic skills. They're gaining a more solid understanding of key cognitive concepts such as multiplication, spelling patterns, and scientific process. Younger children enjoy experimenting with these processes, but nines now take care with the final product. They will work hard on a science report on butterflies, study for weekly spelling tests or a chapter test in math.

Nothing is fair to the nine year old, who is also struggling with the cognitive task of understanding ethical behavior at a new level. Many nines feel they are singled out for unfair treatment by a teacher, parent or Little League coach. This is also a way children relate to a growing sense of peer importance and group solidarity: "You're never fair to *us* . . . we never get to do anything." And there is a growing sense that nothing is fair in the world. Why do children die? Why is there AIDS? Why are there poor people and how come a few people have all the money?

Teachers of nine year olds in third and fourth grade need a sense of humor and a determined lightness to challenge the sometimes deadly seriousness of the age. Their growing peer solidarity can be channeled into wonderful club activities — i.e., stamps, chess, rocks. Positive language is also essential for children's growth. An ounce of negative criticism is greatly magnified by the nine year old. An ounce of encouragement is as well.

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## **The Nine Year Old: Growth Patterns**

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### **Physical**

- Increased coordination
- Pushes self to physical limits
- Fatigues easily
- Numerous injuries
- Somatic complaints
- Tension outlets such as nail-biting, hair-twisting, lip-pursing

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### **Social**

- Highly competitive
- Self-aware
- Impatient
- Worrier; anxious
- Aloof
- Complainer; fairness issues
- Sees adult inconsistencies and imperfections
- Critical
- Can be sullen and moody
- Individualistic

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## The Nine Year Old: Growth Patterns

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### **Language**

- Descriptive
- Loves vocabulary and language play and information
- Baby-talk sometimes re-emerges
- Use of hyperbole
- Age of negatives: "I hate it," "I can't," "boring," "yeah, right"
- "Dirty" jokes
- Graffiti

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### **Cognitive**

- Industrious and self-critical
- Dawn of "bigger world"
- Less imaginative
- Intellectual curiosity
- Ability to deal with multiple variables emerges
- Trouble with abstractions — large numbers, periods of time or space



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## **The Nine Year Old in the Classroom**

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### **Vision and Fine Motor Abilities**

- Increased coordination leads to greater control, interest in detail; cursive handwriting can be fully mastered; watch for overly tight pencil grip
- Practice with a variety of fine motor tools and tasks useful (weaving, knitting, carving, drawing)
- Can copy from board, recopy assignments, produce beautiful "final drafts"

---

### **Gross Motor Ability**

- Push to the limit — love to challenge themselves individually, race against each other or against clock
- Physical control an issue; knowing boundaries and staying within them a physical and social issue
- Boys love to rough-house — "puppy stage"
- Age of physical complaints, frequent injuries — some real, some exaggerated
- Gym class a challenge — can't sit still

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### **Cognitive Growth**

- Can work in groups; arguing, disputes about facts, rules, directions may take longer than actual activity
  - Homework should be reasonable, related specifically to next day's work; asks, "Why do we have to do this?"
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## The Nine Year Old in the Classroom

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### **Cognitive Growth**

- Looking hard (often anxious) for explanation of facts, how things work, why things happen as they do; good age for scientific exploration
- Reading to learn, instead of learning to read
- Takes pride in finished work, attention to detail; enjoys the product, but may jump quickly between interests

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### **Social Behavior**

- Likes to work with partner of choice — usually same gender; cliques may begin
  - Fairness issues increase; can be deadly serious about competitiveness — competition in the curriculum, gym classes, etc. should be presented with a sense of fun, lightness, humor
  - Likes to negotiate — age of "Let's make a deal"
  - Worries (school work, the world) need teacher patience and understanding; clear language when giving directions, setting expectations very important; *avoid sarcastic humor*, children are their own worst critics
  - Second chances important, tendency to give up; encourage and build up fragile sense of ability to accomplish tasks
  - Exasperation by teacher or whining voice leads to more complaints, whining, moodiness; laughing with nines is the best medicine
-



BILL FORBES

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# Ten Year Olds

*"Mrs. Hanson told Diane and me to get our folders and place them on our desks. I made a pretty semicircle with mine. I was glad I had only good papers for my parents to see."*

Nothing's Fair in Fifth Grade  
by Barthe DeClements

"Can we stay in today and finish the book? Please!"

"Will you read more of the story this afternoon, Mrs. Goodwin? We promise to do our math for homework if you would. The story is so awesome!"

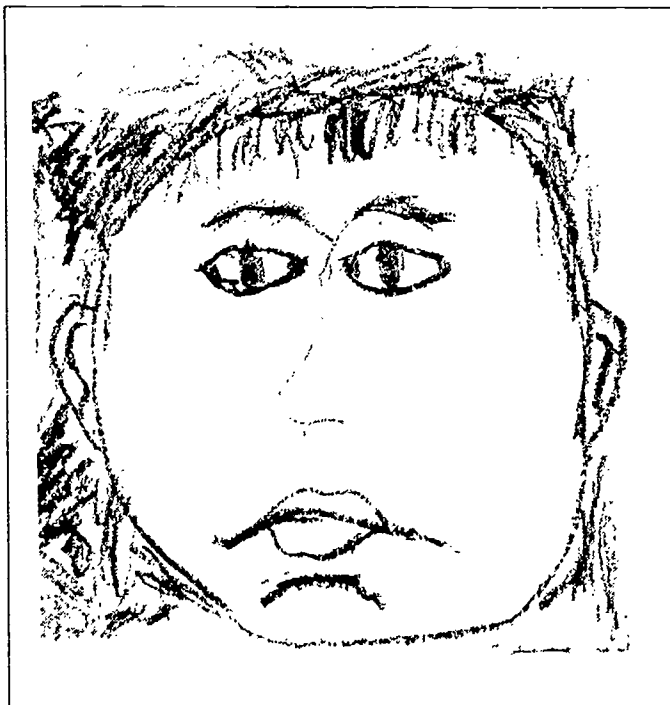
"Yeah," comes the chorus of hushed voices.

"Well . . . all right, children . . . but just one more chapter," yields Mrs. Goodwin, silently delighting in one of those magic moments of teaching, one she will always treasure about this class.

The children settle back in, sprawling on the carpet, or chins on hands at their desks; two girls lean against Mrs. Goodwin as she reads from her comfy chair. The story continues.

Ten \_\_\_\_\_ 87

## Ten



These scenes are repeated often at age ten. To exaggerate a little . . . here is the golden end of childhood. At ten, children find comfort in themselves, their teachers, their parents, and even their siblings! They relax in their childhood, gathering strength for the impending storm of adolescence and consolidating their gains from early childhood. You can see this clearly in the cognitive choices that children make in school. Tens concentrate, even relish, working on tangible products that display their competence — book reports, theme reports, beginning research writing, scientific documentation.

These industrious children are also able to easily share their knowledge with their classmates and work well on group

projects. This is the ideal age for the class play or trip, and tens can often help elevens and even twelves in cooperative pursuits because of their relative calm and instinct for cooperation.

At ten, children seem to be the most "actively receptive" as learners of factual information. This is usually a good time to master the multiplication tables that have been such a struggle until now. It's an age for state capitals, presidents, principle products of major nations, exports and imports, poetry and speech memorization. Education about the human body, sex, childbirth and child rearing (as determined by the school's curriculum policy) can be more effective now than a year or two later when children are more self-conscious about their bodies. The "facts" are more easily taught and remembered, and boys and girls work well together.

Children know all the rules at ten thanks to their facile memories. Board games and games of strategy are great favorites and there tends to be mutual agreement rather than endless arguing about rules. It's a wonderful age to teach or reteach mediation to children, to introduce or reintroduce problem-solving formats in class meeting, to teach governmental structures and scientific principles. All these will be challenged at eleven, argued with at twelve and rebelled against at thirteen. But ten is a great time for initial introduction and general acceptance, to plant the seeds for the more formal and more abstract cognitive challenges ahead.

Outdoor play is as critical for preadolescent children as it is for children in early childhood (See "Exercise" section in *Developmental Issues Affecting All Children*, p. 17). Schools that

## Ten



MARLYNN CLAYTON

have eliminated recess have taken away the inalienable right and undeniable need of children to play. Breaks are especially important to these industrious ten year olds and allow them to bounce back and do even more school work. Five minutes of jumping jacks, a run around the school building, "Head and Shoulders, Knees and Toes," elevates the blood and oxygen levels in the body and brain. (Try this in the middle of standardized testing! You'll see positive results.)

Tens especially love group games outdoors and can be taught and enjoy cooperative and non-competitive activities as well as more traditional and competitive games like kickball, tag and dodgeball. Boys and girls play well together in either kind of

activity. Group initiatives and challenges have great success at this age, so it is a good time for formal outdoor education like a "ropes course" challenge or overnight camping. Children often have their fondest memories of weeks at summer camp at ten.

Ordering their world is central to the ten year old. Enjoy the clean bedroom, the orderly classroom, and the relative absence of arguments. Observe and capitalize on children's interest in classification and seriation: rock collections, baseball and superhero cards, doll and teddy bear and unicorn collections, jewelry boxes, secret compartments. Teach about phylum and genus and other ways of organizing the world. Teach beginning genetics, the value of repeating experiments and testing variables. Teach about attributes and combinations of attributes to describe different phenomena. The world is theirs to organize.



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## **The Ten Year Old: Growth Patterns**

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### **Physical**

- Large muscle development
- Desperately need outdoor time and physical challenge
- Handwriting often sloppier than at nine
- Snacks and rest periods helpful for growing bodies

### **Social**

- Fairness issues peak and can be solved!
- Quick to anger — quick to forgive
- Generally content
- Work very well in groups
- Enjoy both family and peers
- Like clubs, activities, sports
- Usually truthful; developing more mature sense of right and wrong, good at solving social issues

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## The Ten Year Old: Growth Patterns

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- |                  |   |
|------------------|---|
| <b>Language</b>  | <ul style="list-style-type: none"> <li>• Good listeners, actively receptive</li> <li>• Voracious readers</li> <li>• Expressive, talkative, like to explain</li> <li>• Cooperative <i>and</i> competitive</li> <li>• Friendly, generally happy</li> </ul>  |
| <hr/>            |   |
| <b>Cognitive</b> | <ul style="list-style-type: none"> <li>• Memorization productive</li> <li>• Increased ability to abstract</li> <li>• Likes rules and logic</li> <li>• Classification and collections of interest; like to organize</li> <li>• Able to concentrate, read for extended periods</li> <li>• Good problem solvers</li> <li>• Proud of academic products</li> </ul> |

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## The Ten Year Old in the Classroom

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### **Vision and Fine Motor Abilities**

- Able to focus well, concentrate on task at hand; integrate spelling, dictation, penmanship well, but precision may be lacking as many skills come into play at once
- Particularly enjoy tracing and copying as fine motor skills strengthen; i.e., maps, "cartooning" provide excellent fine motor practice
- Use of tools (compass, protractor, ruler, templates) can be introduced successfully; need plenty of practice time

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### **Gross Motor Ability**

- Need a great deal of physical activity, large muscle development; upper body strength generally undeveloped; extra recess, play time a must or will spill over into acting-out behavior
- Love group games, relays, group initiatives; class outings, "ropes courses," double-dutch clubs, team sports, other organized activities

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### **Cognitive Growth**

- Highly productive with school work; usually conscientious with homework; pay close attention to form, structure, directions, organization
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## The Ten Year Old in the Classroom

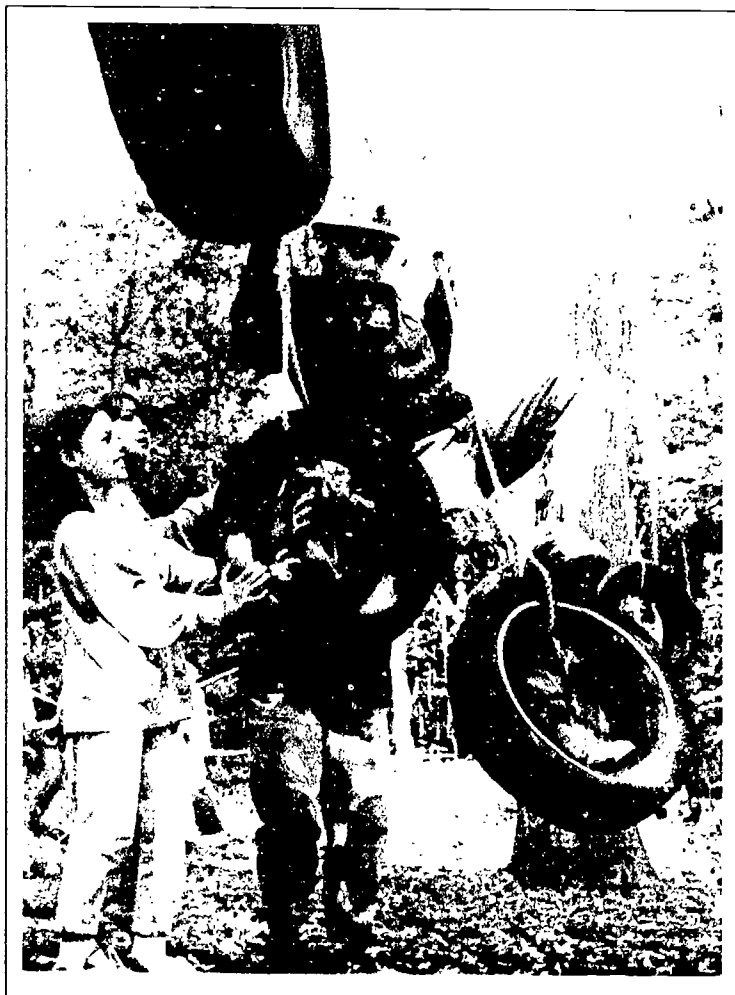
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### **Cognitive Growth**

- Actively receptive learners, memorization a key teaching strategy; love geography, World Book of Records, facts about sports & TV, spelling, math, computer and electronic games; choral reading, singing, poetry, plays popular
- Classification, seriation, exactness are strengths — collections, science and math projects highly productive; height of concrete organizational skills

### **Social Behavior**

- Basically cooperative nature encourages group activity, whole class cohesion, cooperative learning; good age to introduce and train for peer mediation, conflict resolution
  - Friendship and fairness issues constantly being played out; use teams, groups, games, competition to allow for practice in social interaction
  - Generally satisfied with own ability, happy and flexible; can be challenged by teacher to reach out to others; good age to start cross-age tutoring — love serving in role as teacher of younger children; also enjoy community service projects
  - Enjoy being noticed, rewarded for efforts; "noticing" language an important teacher tool
  - Quick tempers may lead to physical outbursts and tears, but usually quickly and easily solved
-



SARAH HCLBROOK

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# Eleven Year Olds

*"Phillip nodded. 'For a girl, you take jokes better than anybody.' Suddenly he pointed down the road and this time the yellow bus was really on its way. He smiled a dimpled smile and I remembered why he's the cutest boy in the J.T. Williams School."*

Phillip Hall Likes Me I Reckon Maybe  
*by Bette Greene*

It's near the end of the morning's math lesson and the children are growing fidgety. The teacher is on a roll; rapid-fire questions are answered correctly one after another:

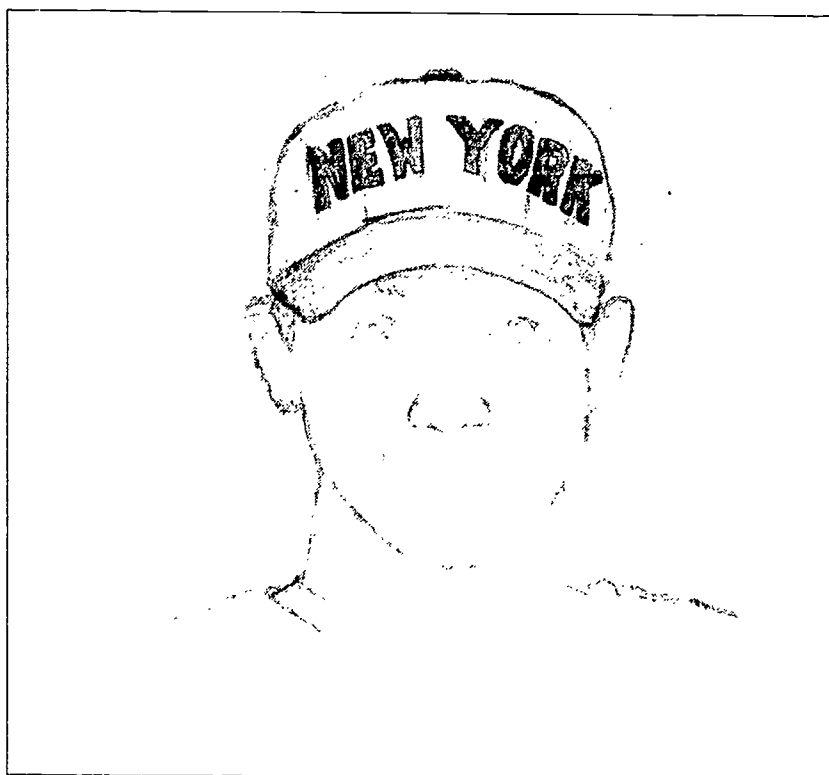
"What's another name for a parallelogram? . . . Yes, Max?"

"It's past time for recess, teacher, we're missing our recess!"

A chorus of agreement greets the teacher.

Finally out at recess, the fifth and sixth graders mill around on the kickball field.

"Same teams as yesterday!" yells one girl.



"No way!" screams another, "You smushed us yesterday."

"Yeah, but Jamal isn't here today that makes it even," says the first girl.

"Yeah, but look who you got today," says the other. The arguments continue. Ten full minutes of their precious recess time is used making up teams. No one seems to mind.

As children move from ten to eleven, major changes begin to take place. In their cognitive growth, children seem to be

challenging all their assumptions about the world and in turn they challenge many of the adult parameters they have previously accepted as relatively clear and just. Cognitive structures in the brain seem to be rearranging themselves with the same speed that the body is beginning to rearrange itself.

Eleven, of course, marks the beginning of adolescence, especially for girls, whose physical growth is generally way ahead of the boys. The onset of menstruation is common at eleven, the average being at twelve. As their bodies change, emotional sensitivity and volatility increase. The clear physical difference between boys and girls leads to natural separation between boys and girls in the classroom and on the playground.

While mixed-gender activity still happens and should certainly still be encouraged, it is not as spontaneously attractive for children as it was at ten. Watch how children come to the meeting circle or to a game, the boys on one side, the girls on another. Boys are watching the girls change and wondering when something is going to happen to them. Both genders are interested in knowledge about sex and changing bodies and this education should continue for both (as determined by the school's curriculum policy).

Elevens in fifth and sixth grade appear to be more absorbed in their own individual academic accomplishments in the classroom, and simultaneously more interested in their peers also. This creates uncertainty for teachers and students. Challenges begin through trial and error and soon teachers face challenges on nearly every subject — assignments; homework; rules in the classroom; interpretations of literature,



## Eleven

history, and governmental policy; adult authority in general. These should be seen and addressed as signs of cognitive as well as social growth!

These challenges aren't always polite or on target, but elevens are engaged in significant changes in their learning approaches and strategies. Their awkwardness and sometimes apparent "rudeness" commonly causes conflict between parents and children as well as teachers and children if the developmental issues aren't understood. Elevens are often genuinely surprised that adults take offense at their challenges and are easily hurt. Parents and teachers also struggle because just a little while ago, at ten, the child was so easy to get along with, such a delightful and reasonable friend to have around.

"Saving face" is very important for the easily-embarrassed eleven year old, even in seemingly innocuous situations. It's especially important to try not to correct the eleven year old in front of his/her peers, but to find a time and place away from the group. When possible, finding a time that is removed from the incident itself is also helpful.

The growing cognitive strength of the eleven year old is fed by learning new and demanding skills in research, such as footnoting, bibliography, and scientific notation. It's also a good age for learning on the computer. They're especially turned off by traditional workbooks, ditto sheets, and other packaged programs that claim to teach "real life skills." Instead, they need the opportunity to interview the fire chief, take notes at a local meeting, or write a letter to a map company or local corporation.



APPLE LORD

While their new skills in these more adult realms may be crude and tentative at first, elevens are motivated by the opportunity to try out brand new arenas of knowledge. Foreign language, music and new forms of artistic expression are also attractive. These challenges aren't met without complaint. Easily frustrated, the eleven year old may fuss about how hard something is to their teacher, while telling their parents how cool the new subject is, or vice versa. For example, something as hard as written dictation can be outwardly hated but inwardly cherished as a delicious intellectual challenge.

Girls at eleven are at the height of forming cliques, which can result in a great deal of cruelty as well as wonderful friendship groups. Cliquish behavior seems to be a way for young girls to practice forming deep attachments that

## Eleven

generally characterize older female relationships and which differentiate them from the more distant and less effusive relationships of both young boys and older males. While this, like much else about developmental patterns, is a generalization, it seems substantiated by much of the recent research by Carol Gilligan and others (see Bibliography).

A teacher's role in dealing with cliques is a delicate balance between letting girls work things out for themselves and providing direct mediation. My experience is that if three girls can't solve a problem within a ten minute time limit, teacher intervention is necessary.

Sports and outdoor activity are important to elevens, but often include arguments about team effort and the interpretation of rules. Elevens also focus on their own personal skill development in a sport and are constantly comparing themselves to the best athletes. Some will drop out of competitive sports at this age (or at twelve) as competition gets increasingly serious and the skills more difficult. Teachers and coaches can encourage continued participation by focusing on effort rather than excellence. Trying hard is rewarded as much as scoring.

Changing bodies also affect the willingness of some girls to continue in individual activities such as dance, gymnastics or swimming. Boys struggle with awkwardness in athletics at this age (as well as at twelve and thirteen) as they begin to shoot up. For both boys and girls, muscles don't keep pace with bones, and aches and pains at night and complaints on the field and in the classroom are common.

The awkwardness of adolescence is just beginning, both physically and emotionally. Eleven signifies even more difficult, as well as joyous, years ahead. It's a time when both teachers and parents need to sharpen their skills in translating language, facial expression, moods and intentions. Mothers, for instance, often report that daughters are exceptionally critical and mean — "I can't seem to do anything right!" Feelings and relationships in adolescence are seldom clear and simple.

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## **The Eleven Year Old: Growth Patterns**

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**Physical**

- Vast appetite for food and physical activity and talking
- Growth spurt c. early adolescence for some girls
- Constant motion; restless
- More illness: colds, flu, ear infections
- Need for more sleep
- Physical aggression not uncommon
- Fine motor capability good

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**Social**

- Moody; sensitive
- Oppositional; tests limits
- Often does best away from home
- Impulsive; rude; unaware
- Loves to argue
- Difficulty with decisions
- Self-absorbed
- Extremes of emotion
- Inclusion/exclusion; height of cliques; seeks to belong

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## **The Eleven Year Old: Growth Patterns**

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- Language**
- Discovery of the telephone
  - Impulsive — talks before thinking
  - Can be cruel
  - Argumentative; debater
  - Appreciates humor
  - Imitates adult language
- 
- Cognitive**
- Prefers new tasks and experiences to reflection or revision of previous work
  - Able to abstract
  - Deductive reasoning advances
  - Can establish and modify rules, develop hypotheses
  - Increased ability to de-center and see world from various perspectives
  - Loves to argue

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## **The Eleven Year Old in the Classroom**

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**Vision and  
Fine Motor  
Ability**

- Highly improved, more confident of skills; can explore delicate work (calligraphy, linoleum block printing, Japanese brush stroke); art an important vehicle to greater focus in reading, math
- May complain of headaches, only read for short periods of time; music (portable tapes, listening centers) may aid concentration
- Handwork (weaving, braiding, sewing) often a favorite; may aid concentration and serve as emotional outlet for stress

**Gross Motor  
Ability**

- Love challenge of competition; prefer team sports, improving ability to play as a team
- Individual motor skills (throwing, catching, kicking) accelerate rapidly; likes to measure individual best
- "Quiet time" in school day useful for physical rest, break from academics and social dynamics

**Cognitive  
Growth**

- Scientific study, mathematical problem solving, invention, debate accentuate new abilities in deductive reasoning; hands-on learning still critical for most
  - Focus on self, imagination and adult roles makes history, biography, current events exciting
-

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## The Eleven Year Old in the Classroom

### **Cognitive Growth**

- Interest in rules (and challenging rules) makes board games, intellectual puzzles, brain teasers, even tests enjoyable, productive
- Reasonably hard work usually challenges rather than defeats; need help with time-management skills, homework
- Learns well in cooperative groups
- Likes work that feels grown-up — research, bibliography, interviews, footnotes, math skills
- May show interest, facility in languages, music, mechanics; time to explore these areas important
- Intellectual interest in older & very young people

### **Social Behavior**

- Desire to test limits, rules, an important developmental milestone, not personal attack on teacher; class meetings, peer mediation, student councils, cross-age tutoring highly effective
  - Teacher attitude, tone, sense of humor critical; prevent them from taking themselves too seriously
  - Inclusion/exclusion issues require changing structures to adjust social mix
  - "Saving face" important; not necessary for teacher to "win" arguments; provide private, physical space to think things over
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MARLYNN CLAYTON

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# Twelve Year Olds

*"I am not a nut. I am a pioneer."*

The Real Me  
by Betty Miles

The oldest excuse in the world — "The dog ate my homework" — has changed for the economic group of twelve year olds lucky enough to have computers at home.

"Mrs. Abernathy, the printer chewed up my paper."

"My dad was using the computer."

"My baby sister erased all my files."

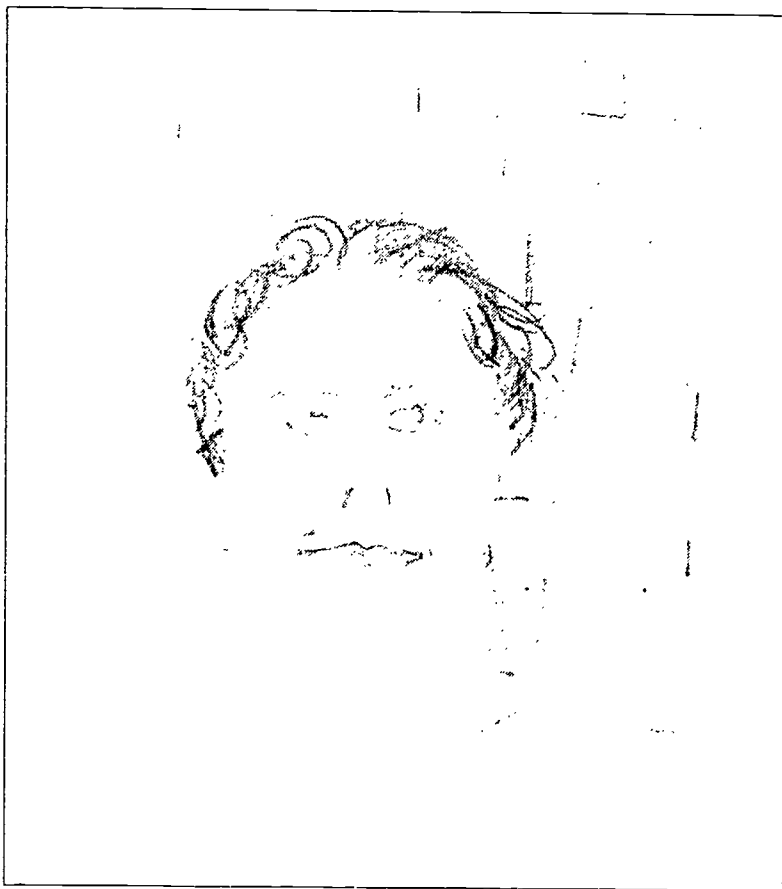
But the excuses are just as inventive, with or without computers:

"I couldn't find any paper in the house."

"I left my book on the bus. Has anybody seen my book?"

"You didn't tell us it was due today!"

Twelve \_\_\_\_\_ 109



"I can't go to gym today, my ankle is killing me."

" You're not going to make us play that stupid game again are you?"

"Man, that's dumb!"

And on and on . . .

Junior Highs which include 7, 8, 9; Middle Schools with 6, 7, 8; schools which are K-5, K-6, K-8 — we've tried them all over the past forty years, yet we're still trying to figure out how best to reach and teach the twelve year old child. Teachers and educators have yet to come up with the perfect environment and program for the beginning of adolescence.

Twelves, caught up in the world of lockers and fifty minute classes are often lost and confused, scared and alone. But in self-contained classrooms, they can appear bored and aloof, disengaged and challenging to adult authority.

The truth may be that there is no perfect place for twelves. For most of my career, I have maintained that twelves (and thirteens and fourteens for that matter) probably do not belong in formal school environments at all, but in something that would be a cross between summer camp and the CCC camps of the Great Depression — plenty of physical activity, structured groups, and time with peers.

Twelves' greatest need is to be with their friends. Teachers and parents take a back seat on the long ride toward the driver's license. The primary developmental struggle is the confusing struggle for identity: the child/not-child begins the search for fidelity in relationships. This is an all-consuming quest beginning at twelve. Minutes turn to hours on the telephone and in front of the mirror. Twelves define themselves by jackets, hairstyles, shoes, CD's, tapes, movies, videos, TV preferences, sports teams, the mall, the dance rage, what older kids are doing. School becomes the place to be, but not always for our intended purposes.

On the other hand, twelves can also become deeply invested

## Twelve

with their peers in purposeful school work. Research projects, current events, environmental issues and causes, scientific experiments, major art projects, dramatic productions can attract and engage the twelve year old.

Sometimes, twelves want fervently to be involved in work as part of a group, and other times want just as fervently to pursue their learning individually. Twelves are changeable, unpredictable and often very hard to read. They often say "That's not what I meant at all!" when an adult misreads a tone of voice, or an off-hand, seemingly rude comment.

Twelve year olds can be offered large doses of responsibility in the school environment and most will respond with pride and accomplishment. Twelves make excellent one-on-one tutors for younger children. They can manage a recycling program for the school, or a school store with help; raise money and goods for needy families; put out a class or school newspaper. They can participate in student councils, organize their first school dance, or plan the spring field trip.

But smaller and more mundane responsibilities, such as keeping their room clean, may elude them. (This, by the way, is *not* the battle to pick with twelves.) At school, keeping track of things like assignments, books, papers, and sweat shirts isn't a priority. Excuses are constant, often transparent and humorous. This ability to be totally responsible and totally irresponsible at the same time can be annoying, even infuriating, to adults. For the twelves, it is simply a matter of priorities. Teachers who hold class meetings and discussions of consequences will be more successful in getting twelves to accept responsibility for their behavior.



MARLYNN CLAYTON

Physical energy drives twelve year olds. Both boys and girls are now in growth spurts, though puberty comes first to the girls. Both genders, however, require enormous amounts of sleep, food and exercise. Schools don't commonly provide enough time for either of the latter two. Twelves will thrive in a classroom where food is allowed. A mid-morning snack is just as useful to the brain of a twelve year old as that of a five year old and just as essential to their growing bodies. A five minute run around the building or a ten minute game on the

## Twelve

playground can rejuvenate and send needed relief to the oxygen-starved brain.

Twelves are excited and challenged by lengthy homework assignments and projects that culminate in visible products: reports with beautiful covers or illustrations; skits about famous people in history, complete with elaborate costumes and props; topographical maps made in three dimensions with chicken wire, papier mâché and paint; scientific models with working parts; computer programs that stump or amaze the class.

Twelves will have reasonable and unreasonable ideas for changing the way the classroom and the school operate. A dress code, chewing gum in school or having a school dance can become major issues. Fairness and the process of making rules become more important. It's important to give twelves an opportunity to discuss and *modify* rules, but it's essential to keep rules consistent and to maintain ultimate adult authority clearly and calmly. Teachers must be fair and firm.

At home, children may seem more introverted and moody, communicate in monosyllables and grunts, withdraw as they sort out their feelings. Teachers can help by providing a view for parents of their children's competence. Sharing children's work with parents is just as important at this age as in kindergarten.

Team sports provide some of the rites of passage twelves need as they enter the teen years. For those not athletically inclined, clubs and activities such as computers, chess, service organizations, Junior Achievement, and scouting can help build bridges into adult-like roles and participation in society. When these rites of passage aren't available, twelves may begin to

experiment with the slippery slope of premature sex, violence, alcohol, and drugs, which are clearly portrayed as rites of passage by the media, advertising and many older teens.

Rituals and ceremony can be deeply meaningful to twelve year olds as part of their rites of passage. Confirmation and bat/bar mitzvah have profound meaning and children prepare for these events seriously, with a sense of importance and purpose. Schools can provide similar ceremonial experience through graduations, honor assemblies, service and athletic awards. Twelves and young teens need to see and feel the recognition from adults and their peers that they *are* changing and growing into responsible members of the adult community.



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## **The Twelve Year Old: Growth Patterns**

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### **Physical**

- High energy
- Much rest needed
- Growth spurt; signs of puberty
- Menstruation for majority of girls
- Food important, especially mid-morning in school
- Physical education and sports valued

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### **Social**

- Adult personality begins to emerge
- More reasonable, tolerant than at 11
- Enthusiastic, uninhibited
- Will initiate own activity
- Empathetic
- Self-aware, insightful
- Can set realistic goals in the short-term
- Appears secure
- Peers more important than teachers

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## **The Twelve Year Old: Growth Patterns**

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- Language**
- Sarcasm emerges
  - Double meanings, word play, jokes of intellectual interest
  - Enjoys conversation with adults and peers
  - Peer "vocabulary" (slang) important
- 
- Cognitive**
- Increased ability to abstract in intellectual pursuits
  - May show emerging ability in a particular skill or content area
  - Can and will see both sides to an argument
  - High interest in current events, politics, social justice; also pop culture, materialism
  - Research and study skills advance with increase of organizational discipline

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## **The Twelve Year Old in the Classroom**

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**Vision and  
Fine Motor  
Ability**

- Increased fine motor ability, patience for practice, self-confidence, makes all fine motor tasks more more pleasurable (see 11 yr. old)
- Sustains reading for long periods; visual concentration better; longer periods on the computer; learns word processing, other skills
- Handwork still popular; interest in more complicated visual-motor tasks (carpentry, mechanical repair, clothes design, architecture)

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**Gross Motor  
Ability**

- Team sports satisfying for many; also individual work in dance, drama, martial arts, gymnastics
- Begin the idea of training, regular exercise, as means to improve physical ability
- Enjoy teaching younger children physical skills

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**Cognitive  
Growth**

- Current events, civics, history highly motivating when tied to issues of clear relevance to students
  - More interest and depth in drama, debate, performance; rehearsal and revision increasingly understood, appreciated (true in the writing also)
  - Lengthy homework, assignments due over longer periods become more reasonable, but can be problem over weekends; planning and organization of assignments improves
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## **The Twelve Year Old in the Classroom**

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**Cognitive  
Growth**

- Can help peers significantly with subject matter; allow time for peer conferencing, partner projects, lab partners in science, etc.
- Both playful and serious — love to play class games but can have a serious discussion a moment later
- Isolated subject matter, distinct class periods tend to fragment rather than integrate learning; pursue joint teaching projects, self-contained classrooms where possible

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**Social  
Behavior**

- Leadership qualities abound — provide many opportunities for cross-age tutoring, jobs at school, community service, hosting visitors, providing child care for parent meetings
  - Teacher should listen, respond to suggestions for changes in routines (as realistic)
  - Provide ceremonies, rituals, rewards at significant benchmarks in year; give twelves a part in planning
  - Provide access to significant adults (other than teacher) for help with issues of drugs, alcohol, sex, AIDS, violence, family issues
  - Making money (from jobs at home, in neighborhood) becomes important
  - Make time to listen
-

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# Curriculum

The following charts offer a subject-at-a-glance look at the developmental continuum between ages four and twelve. Following each subject area is a short list of professional resources that will provide a more detailed examination of each subject area.

These charts are not exhaustive — such as so-called “scope and sequence” charts often found in formal curricula — and they *do* express the curriculum biases of a developmentally appropriate continuum as practiced at the Greenfield Center School and in my own career as a teacher.

Remember that age and cognitive growth do not necessarily go hand in hand. Some children, for instance, will be ready for reading instruction at earlier ages than others while some children may not be ready to read until past the “expected” age. Schools are often very quick to label such children learning disabled or remedial when enrichment and whole language experience may be the key to success. On the other hand, schools steeped in a whole language tradition can wait

too long with some children to begin intervention strategies (such as "Reading Recovery") that can be very helpful.

A good rule of thumb is to do some diagnostic work at the end of first grade if the six or soon-to-be seven year old is frustrated and struggling with whatever reading approach is in place. A similar approach is recommended for the acquisition of basic mathematical concepts of counting, simple measurement, beginning addition and subtraction, and grouping or "set making."

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## Reading

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### Age Four

- Children love to be read to; especially enjoy picture books with repetitive themes
- "Parallel" reading with an adult; child "reads" one page (telling the familiar story), you read the next
- "Predictable" books with few words and repeating phrases, or books with pictures and no words help build the sequences of reading

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### Age Five

- "Partner" reading can begin with peers helping each other through familiar books. Early and more able readers often paired with more beginning readers, but both play an active role (as in "parallel" reading)
- Begin reading short chapter books to the class
- Big Books, and Language Experience stories written by the class and turned into Big Books a favorite activity
- "Predictable" books remain important
- Phonics instruction should be organic (given where and when needed), not formalized
- Encourage reading the environment — labels, signs, posters, charts

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## Reading

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### Age Six

- Partner reading should continue
- Phonics instruction through whole language experiences with the whole class and small heterogeneous groups
- Introduction to the school or town library (may begin in kindergarten)
- "Predictable" books are still important, but also "easy" chapter books
- Simple expressive assignments about reading comprehension begin (writing, drawing, clay, painting, drama, blocks, construction)

### Age Seven

- "Silent reading" is not yet silent — lots of whispering (vocalizing) as children read
- Individual reading becomes stronger than partner reading
- Phonics instruction intensifies through small reading group instruction
- Formal spelling program introduced (also as part of writing)
- Reading comprehension assignments continue and include more written responses



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## Reading

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### Age Eight

- Reading groups based on trade books organized heterogeneously around interests of children within reachable skill range
- Independent reading program introduced with simple independent assignments or projects (such as book covers, interviews, dioramas) designed to spur class interest in reading and show reading comprehension
- Lengthier chapter books with more advanced themes introduced for read-aloud time

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### Age Nine

- Reading Groups continue; assignments involve beginning research tasks, use of related reading material
- Dictionary skills taught intensively (although introduced at earlier ages)
- Some children may volunteer to read orally during read-aloud
- Major poetry unit or poetry throughout the year begins in earnest (although introduced at earlier ages)

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## Reading

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### Age Ten

- Poetry captivating; children love to memorize and recite; also choral readings and plays a great favorite
- Trade books centered around themes begin to entice readers (*Nothing's Fair in Fifth Grade*)
- Independent reading a favorite activity, children want to devour one book after another — allow a separate period for this activity without book project being required as often
- High interest in comic books

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### Age Eleven

- Week-long reading assignments begin, still utilizing trade books
- Increased use of non-fiction reading tied to subject area knowledge
- Biographies a favorite
- Enjoy reading to children in younger grades, especially helpful for less fluent readers

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## Reading

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- Age Twelve**
- Trade books still utilized
  - Current events reading through use of newspapers, magazines
  - Reading for scientific information; reading of charts, graphs
  - Trilogies and book series a favorite
  - History, sports, science fiction popular topics
  - Interest in fiction with themes tying in to current events/social justice — i.e., *Journey to Johannesburg*, *Roll of Thunder*, *Hear My Cry*
  - Able to recognize and discuss formal aspects of fiction — setting, character, etc.
  - Research reports based on readings from several sources assigned
  - Library skills taught: atlas, card catalog, computer searches, etc.

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## Writing

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Included in this chart you will find information about the developmental continuum in writing, spelling, thematic interests of young writers and their usual handwriting approach. Again, remember that development in these areas does not always correspond neatly to a specific chronological age. Writing, spelling and thematic interest are tied to the cognitive development of children; handwriting is related to both cognitive and physical development.

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### Age Four

- *Writing* — "scribble" writing and drawing predominate
- *Spelling* — Prephonemic — any letters do not correspond to sounds, i.e., BHKEEEEEEEJB for sailboat
- *Writing Themes* — Blood and gore; fantasy; TV take-offs; fairy tales; pets
- *Handwriting* — Children tend to grasp pencil or crayon in a whole fist; young fours may hold pencil more tentatively toward eraser and write with a very light stroke. Older fours are bolder and firmer with stroke.

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## Writing

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### Age Five

- *Writing* — Drawing and labeling with initial consonants to stand for one feature in the drawing. "Stories" are told in a single drawing and one or two words.
- *Spelling* — Continues to be largely prephonemic or early phonemic — initial consonants begin to appear as representing words and are sometimes strung together in sentences as ISTBFL (I see the butterfly)
- *Writing Themes* — Family, family trips, fairy tales, tales of good and evil, stories about pets, stories about themselves and best friends
- *Handwriting* — Pencil grasp moves to a three fingered approach and letter formation tends to be all upper case. Irregular spacing between words is related to beginning understanding of spelling.

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## Writing

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### Age Six

- *Writing* — Drawing continues to have a big influence on story development. Children form stories from a collection of drawings. They begin to create with whole sentences, even if these sentences are early phonemic or use "letter name" spelling strategies — I WNT TO HR HS (I went to her house).
- *Spelling* — Letter naming (I lik to et candee — I like to eat candy) and "transitional" spelling (My frends ride bickes) predominate at this age. A growing sense of phonetic clues is emerging and should be taught tentatively.
- *Writing Themes* — Best friends, school-related stories, pets, going on trips, new possessions, holidays, fantasy
- *Handwriting* — Proper pencil grip. Size of letters larger than at five and sloppier because writer is usually in a hurry or experimenting with new letter formation. Upper and lower case used together spontaneously. Spacing is unpredictable.

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## Writing

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- Age Seven**
- *Writing* — Longer stories with beginning, middle and end emerge; sometimes "chapter" books. The story line is all important; everything from "breakfast to bed." Now writing comes before drawing and sometimes does not even include drawing.
  - *Spelling* — Correct spelling slowly emerges from transitional with increased phonetic and sight word fluency. A formal spelling program appropriately begins. "Invented" spelling should still be accepted because revision is still not seen as necessary or important by children. Capitalization and punctuation easily taught.
  - *Writing Themes* — Family, friends, sleeping over, losing teeth (also at six), trips, pets (often including first stories about death of pets), death of family members, illness, war, famine, or other serious issues, nightmares. Nonfiction writing can be introduced as a way to show learning from concrete science or social studies investigation.
  - *Handwriting* — Pencil grip down on shaft of pencil, often right on the lead; a very tight grip, often over-tense. Size of letters is often microscopic, anchored to the baseline. Not a good age to introduce cursive handwriting — introduce it to younger or older children.
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## Writing

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### Age Eight

- *Writing* — Quite lengthy stories with increasingly descriptive language. Interest in diverse writing genres such as poetry, newspaper articles, cartoons. The "breakfast to bed" story-line is a favorite, providing more detail than any reader (except the author) would care to know about. The beginnings of draft and revision are meaningful.
- *Spelling* — Correct spelling improves; compound words taught. Use of dictionary, alphabetical order. Phonetic mistake patterns more noticeable and students with real difficulty in spelling easier to spot. Practice with capitalization and punctuation continues.
- *Writing Themes* — Adventure and "breakfast to bed" stories, sports with friends and heroes; horses, unicorns and other mythical beasts; stories based on cartoons; "chapter" books; poetry about nature, the seasons. Use of nonfiction writing like at seven continues.
- *Handwriting* — Good posture, pencil grip and fluid movement of arm and hand across page. Excellent time to introduce cursive handwriting and provide lots of time for practice. Children enjoy this practice and want to become competent, though easily frustrated.



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## Writing

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### Age Nine

- *Writing* — Emphasis can be placed on first draft and revision process. Descriptive writing can be taught more deliberately as well as character development, plot, cohesiveness and believability.
- *Spelling* — Use of dictionary improves as does first draft spelling. Functional spelling as in journals, other subject writing shows increasingly fewer mistakes. Weekly testing appropriate. Basic capitalization and punctuation usually mastered.
- *Writing Themes* — Moving away, divorce, death, disease, and other worries predominate; world issues; non-fiction writing; poetry about feelings, darker themes. "Writer's block" common.
- *Handwriting* — Increasingly fluent in cursive; begin to use in day-to-day assignments and in spontaneous writing; much neater than at eight.

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## Writing

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### Age Ten

- *Writing* — Lengthy chapter books, longer poems, first research papers, writing about famous people — all usually filled with light and descriptive language. Humor may emerge in writing more frequently. Use of dialogue deepens as well as good interaction between characters.
- *Spelling* — Students enjoy memorizing spelling lists and are challenged positively by difficult words. Ability to do well on tests and to spell well functionally do not always coincide.
- *Writing Themes* — Friends, friends and more friends in many adventures; time travel; letter writing for information; note writing to friends; report writing.
- *Handwriting* — Functionally fluent cursive or keyboarding for those having great difficulty.

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## Writing

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- Age Eleven**
- *Writing* — Children benefit greatly from the opportunity to rehearse their writing. Plot, character, style, personal interest in varied subject matter all expand and begin to take on characteristics of "adult" writing. Research report writing still very rudimentary and tied to source material. Poetry writing a favorite as is cartooning. Revision can be a struggle.
  - *Spelling* — Accurate or difficult depending on child. Most enjoy challenge of difficult words. Dictionary skills emphasized.
  - *Writing Themes* — Quite varied and individual for advanced writers; blood and gore, fantasy, science fiction, love and romance.
  - *Handwriting* — Functional for most.

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## Writing

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- Age Twelve**
- *Writing* — Revision easier, peer conferences highly effective (certainly useful at all ages). Biographies and autobiographic writing; world concern writing: racism, poverty, environmental issues. Enjoy a class or school newspaper. Writing can be linked to reading program — diaries, fantasies, myths, etc.
  - *Spelling* — functional for most; use of “spell checks” for those severely challenged as well as other computer interventions.
  - *Writing Themes* — Teen issues begin to predominate — sex, drugs and rock and roll, cars; poetry full of emotion; “editorial” writing full of extreme positions; use of “vernacular” or slang in fiction; interesting dialogue; ability to summarize and write briefly with clarity begins to appear.
  - *Handwriting* — functional for most; use of word processor taught for all students, even those with good handwriting. Letter writing, invitations and thank you notes good practice modes. Some students show interest in calligraphy.

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## Resources Bibliography for Reading and Writing

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*Independence in Reading.* Don Holdaway. Portsmouth, NH: Heinemann Educational Books Inc., 1980.

*Invitations: Changing as Teachers and Learners.* Regie Routman. Portsmouth, NH: Heinemann Educational Books Inc., 1991.

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## **Thematic Units**

**(Social Studies, Science, Current Events)**

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The teaching of themes is currently extremely popular and has been a common instructional method throughout the history of education. "Unit Teaching," for instance, was a well known and widely used approach in the thirties, forties and fifties. Theme study allows teachers to integrate subject matter and varied skill development (such as in art, music) into the regular curriculum, rather than limiting such instruction to special subject teachers. Nowhere is this more important than in teaching cultural and ethnic diversity, which should permeate all subject areas.

Some of the pitfalls with thematic instruction can be a lack of continuity leading to gaps in content knowledge from grade to grade and the choosing of themes that bear little relationship to the developmental interests of children. At the Greenfield Center School we try to combine a "concentric circle" model of themes (as first introduced by Lucy Sprague Mitchell in the 1930's) with teacher and student interest. This allows us to focus on experiential and concrete knowledge. For example, children build relief maps rather than drawing them on paper, and use a compass in the woods rather than the classroom. Here are some typical themes by age.

- 
- Age Four**
- Dinosaurs; all about me; transportation (cars, trucks, trains and planes); houses
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## Thematic Units

*(Social Studies, Science, Current Events)*

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- Age Five**
- Families; all about me, my body; babies; pets; our school; seasonal themes in nature (snow, winter, hibernation)

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- Age Six**
- Families; friends; our school; workers in our school; themes in nature (butterflies, seasons, plants); jobs people do; differences (cultural, racial, language)

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- Age Seven**
- Our neighborhood; how systems work (plumbing, lighting, heating in our school; how we get our milk; how the cafeteria works); jobs people do; things we are good at; cultural and racial diversity, discrimination; natural science themes (pond, forest, meadow)

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- Age Eight**
- Our neighborhood; our community (interdependence); community institutions (bank, newspaper, radio); long ago *OR* far away (but not both); themes in nature (trees, rocks, animals); cultural and racial diversity, beginning history
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## **Thematic Units**

***(Social Studies, Science, Current Events)***

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- Age Nine**     • Our country and world; long ago and far away; history of culture (Egypt, Africa); racial and ethnic diversity; environmental concerns in the immediate environment (trash, air or water pollution); literature characters or a theme focused around a particular book
- 
- Age Ten**     • Geography; immigration; history; how things work; geology, land formations, weather; industry (research of a particular product to its source); games
- 
- Age Eleven**   • Games; history; biography; government; community service; physical development, the body systems; plant growth and other forms of systematic measurement
- 
- Age Twelve** • Politics (including student); current events; community service projects; fund raising (as a theme to be studied); history; racism; elementary economics and statistics; computer simulations; scientific experimentation; the microscopic world
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## Resource Bibliography for Themes

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*Becoming Whole Through Games: A Parent/Teacher Guide and Skill Checklist to 100 Games.* Gwen Bailey Moore, Ph.D. and Todd Serby. Atlanta, GA: TEE GEE Publishing Company, 1988.

*Doing What Scientist Do: Children Learn to Investigate Their World.* Ellen Doris. Portsmouth, NH: Heinemann Educational Books Inc., 1991.

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*Learning and Loving It: Theme Studies in the Classroom.* Ruth Gamberg, Winniefred Kwak, Meredith Hutchings, Judy Altheim with Gail Edwards. Portsmouth, NH: Heinemann Educational Books Inc., 1988.

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## Mathematics

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### Age Four

- Exploration of size, shape, length, volume through experience with objects and materials such as blocks, cubes, interlocking blocks, sand, water, etc.
- Counting, sorting activities
- Math in stories

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### Age Five

- Counting and sorting, set making, simple addition and subtraction using real materials, graphing
- Beginning pencil and paper experiences with numbers
- Practice with number formation
- Simple equations
- Continued exploration of size, shape, length, volume, as at four

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## Mathematics

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### Age Six

- Mental mathematics and problem solving begin *after* mastery of skill with concrete material
- Basic computation with money
- Simple worksheets to practice simple computation
- Experimentation with reversing operations (+ and -)
- Lots of experience with measuring (sand table, water table, outdoors, feet, blocks, etc.)
- Work with manipulatives must continue

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### Age Seven

- Increased computation with money
  - Time
  - More complex mental mathematics; equation solving
  - Fractions through measurement, weighing, comparing
  - Symmetry and other simple geometry (unit blocks, pattern blocks)
  - Simple computation with multiplication, division based on experience with concrete materials
  - Continued use of games as vehicle for skill practice
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## Mathematics

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- Age Eight**
- All four operations used in problem solving
  - Fractions through measurement, weighing, and some pencil and paper tasks
  - Borrowing and carrying
  - Geometric patterns constructed with pencil and paper
  - Games provide arena to practice strategy
- 

- Age Nine**
- Division
  - Extensive experience with word problems
  - Computation with money, introduction of decimals
  - Practice with multiplication tables
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- Age Ten**
- Multiplication tables mastered
  - Decimals taught extensively
  - Extensive computation with fractions
  - Measurement, and measurement computation with maps
  - Double-digit division
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## Mathematics

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- Age Eleven**
- Complicated word problems
  - Probability and statistics through real problems
  - Use of calculator and computer in mathematics
  - Computation for speed and accuracy
  - Percentage
- 

- Age Twelve**
- Instruction in pre-algebra, extensive use of unknowns
  - Using math in science
  - Extensive computation in decimals, fractions, percents
  - Instruction in geometric problem solving
-

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# Some Favorite Books for Different Ages

Favorite titles from the author, and teachers and children at the Greenfield Center School.

## **Books for Fours, Fives and Sixes**

*Abiyoyo*, by Pete Seeger, New York: Scholastic Inc., 1963.

*All of a Kind Family*, by Sidney Taylor, New York: Dell, 1980.

*Blueberries for Sal*, by Robert McCloskey, New York: Scholastic Inc., 1948.

*Blue Skye*, by Lael Littke, New York: Scholastic Inc., 1991.

*The Carrot Seed*, by Ruth Krauss, New York: Harper & Row, 1945.

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*The Caterpillar and the Polliwog*, by Jack Kent, New York: Random Books for Young Readers, 1985.

*Cherries and Cherry Pits*, by Vera B. Williams, New York: Scholastic Inc., 1986.

*A Fairy Went A-Marketing*, by Rose Fyleman, New York: E.P. Dutton, 1986.

*Frederick*, by Leo Lionni, New York: Pantheon Books (Random House), 1967.

*Go Dog Go*, by P.D. Eastman, New York: Random House, 1961.

*Ibis, A True Whale Story*, by John Himmelman, New York: Scholastic Inc., 1990.

*If You Give A Mouse A Cookie*, by Laura Numeroff, New York: Scholastic Inc., 1985.

*It's about Cats*, by Gallimard Jeunesse, New York: Scholastic Inc., 1989.

*Lost*, by Jay Cowley, San Diego: Shortland Publications, 1981.

*The Party*, by Jay Cowley, San Diego: Shortland Publications, 1983.

*Pearl's Pirates*, by Frank Asch, New York: Dell, 1989.

*Peter Pan*, by J. Barrie, New York: Random Books for Young Readers, 1991.

*Phantom Tollbooth*, by Norton Juster, New York: Knopf Books for Young Readers, 1993.

*Rainbow Goblins*, by Ulde Rico, New York: Warner, 1978



*Roxaboxen*, by Alice McLerran, Wooster, OH: Lathrop, 1991.

*Secret Garden*, by Frances H. Burnett, New York: Random House Books For Young Readers, 1993.

*A Trio for Grandpapa*, by Shulamith Oppenheim, New York: Thomas Crowell, 1974.

*Two by Two*, by Barbara Reid, New York: Scholastic Inc., 1992.

*The Vanishing Pumpkin*, by Tony Johnston, New York: Scholastic Inc., 1983.

*The Very Hungry Caterpillar*, by Eric Carle, New York: Putnam Publishing Group, 1981.

*Where Do Ghosts Live*, by Noodles, New York: Holt, Rinehart and Winston, 1979.

## **Books for Sevens and Eights**

*All About Sam*, by Lois Lowry, Boston: Houghton Mifflin, 1988.

*Babysitters Club*, by Ann M. Martin, New York: Scholastic Inc., 1991.

*The Bandana Bunny*, by Rhoda McBain, Chicago: Holly Tree House, 1949.

*20,000 Baseball Cards under the Sea*, by Jon Bullet and Susan Schade, New York: Random House, 1991.

*The BFG*, by Roald Dahl, London: Penguin Group, 1982.

*Black Beauty*, by Anna Sewell, Toronto: Random House, 1990.

*The Boxcar Children Series*, by Gertrude Chandler Warner, New York: Scholastic Inc., 1989.

*Catwings*, by Ursula K. LeGuin, New York: Orchard Books, 1988.

*The Cat Who Wore A Pot on Her Head*, by Jon Slepian and Ann Seth, New York: Scholastic Inc., 1980.

*CDB!*, by William Steig, New York: S & S Trade, 1987.

*Charlie and the Chocolate Factory*, by Roald Dahl, New York: Alfred A. Knopf, 1964.

*Charlotte's Web*, by E.B. White, New York: Harper & Row, 1953.

*Dan, The Flying Man*, by Joy Cowley, New Zealand: Shortland, 1983.

*Danger at the Breaker*, by Catherine A. Welch, Minneapolis: Carolrhoda Books Inc., 1992.

*Dominic*, by William Steig, New York: Collins, 1972.

*Fantastic Mr. Fox*, by Roald Dahl, New York: Puffin, 1988.

*Gila Monsters Meet You at the Airport*, by Marjorie Weinman Sharmat, New York: Puffin Books, 1983.

*The Great Brain at the Academy*, by John D. Fitzgerald, New York: Dell, 1972.

*Hare's Choice*, by Dennis Hamley, New York: Dell Yearling, 1988.

*The Haunted House*, by Dorothy Haas, New York: Scholastic Inc., 1988.

*The Haunting of Grade Three*, by Grace Maccarone, New York: Scholastic Inc., 1984.

*James and the Giant Peach*, by Roald Dahl, New York: Knopf Books for Young Readers, 1961.

*Karen's Witch*, by Ann M. Martin, New York: Scholastic Apple Paperbacks, 1988.

*A Kiss For Little Bear*, by Else H. Minarik, New York: Harper Collins Children's Books, 1984.

*The Last Basselope*, by Berkeley Breathed, Boston: Little Brown, 1992.

*Little House in the Big Woods*, by Laura Ingalls Wilder, New York: Harper & Row, 1945.

*The Little Mermaid*, by Deborah Hautzig, New York: Random House, 1991.

*The Littles and the Terrible Tiny Kid*, by John Peterson, New York: Scholastic Inc., 1993.

*Matilda*, by Roald Dahl, New York: The Penguin Group, 1988.

*Midnight Express*, by Margaret Wetteren, Minneapolis: Carolrhoda Books, 1990.

*Mystery in the Night Woods*, by John Peterson, New York: Scholastic Inc., 1991.

*No Fighting, No Biting*, by Else H. Minarik, New York: Harper Collins Children's Books, 1978.

*Patrick's Dinosaurs*, by Carol Carrick, New York: Houghton Mifflin, 1983.

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*The Rag Coat*, by Lauren Mills, Boston: Little Brown and Co., 1991.

*Ramona The Pest, Ramona Quimby: Age 8 and other Ramona books* by Beverly Cleary, New York: Avon Books, 1968.

*Scary Stories*, by Alvin Schwartz, New York: Harper Collins, 1981.

*The Story of Babe Ruth; Baseball's Greatest Legend*, by Lisa Eisenberg, New York: Dell Yearling Biography, 1990.

*Stuart Little*, by E.B. White, New York: Harper & Row, 1945.

*Superman: Doomsday & Beyond*, by Louise Simonson, New York: Bantam, 1993.

*Sweet Valley Kids: Surprise, Surprise*, by Francine Pascal, New York: Bantam, 1992.

*Yuck Soup Story*, by Joy Cowley, Bothell, WA: Wright Group, 1986.

*Zlateh the Goat and Other Stories*, by Isaac Singer, New York: Harper Trophy, 1984.

## **Books for Nines and Tens**

*A Connecticut Yankee in King Arthur's Court*, by Mark Twain, New York: Bantam, 1983.

*The Adventures of Tom Sawyer*, by Mark Twain, New York: Bantam, 1983.

*Anastasia Has The Answers*, by Lois Lowry, New York: Dell, 1987.

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*Bridge to Terabithia*, by Katherine Paterson, New York: Harper Collins, 1977.

*The Brightest Light*, by Collen O. McKenna, New York: Scholastic Inc., 1992.

*Chronicles of Narnia*, by C.S. Lewis, New York: Scholastic Inc., 1953.

*Eating Ice Cream with a Werewolf*, by Phyllis Green, New York: Dell, 1985.

*Emily's Runaway Imagination*, by Beverly Cleary, New York: Avon Books, 1985.

*The Fourth Grade Wizards and Nothing's Fair in Fifth Grade*, by Barthe DeClements, New York: Puffin Books, 1988 & 1990.

*From the Mixed-Up Files of Mrs. Basil E. Frankenweiler*, by E.L. Konigsburg, New York: Macmillan, 1987.

*The Hobbit*, by J.R.R. Tolkien, New York: Houghton Mifflin, 1984.

*The Indian in the Cupboard Series*, by Lynn Reid Banks, New York: Doubleday Inc., 1987.

*Jeremy Thatcher, Dragon Hatcher*, by Bruce Coville, New York: Pocket Books, 1991.

*King of the Wind*, by Maguerite Henry, Chicago: McNally and Company, 1948.

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*Tales of a Fourth Grade Nothing*, by Judy Blume, New York: Dell Yearling, 1972.

*Volcano*, by Meryl Siegman, New York: Bantam, 1987.

*Walk When The Moon Is Full*, by Frances Hamerstrom, Freedom, CA: The Crossing Press, 1975.

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*The Young Indiana Jones Chronicles*, by Richard Brightfield, New York: Bantam, 1992.

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*Children of the Wolf*, by Jane Yolen, New York: The Penguin Group, 1984.

*Comet in Moominland*, by Tove Jansson, Canada: Harper Collins Canada Ltd., 1991.

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*Domes of Fire*, by David E. Kings, New York: Ballantine Books/Del Rey, 1993.

*Dragons of the Lost Sea*, by Laurence Yep, New York: Harper Trophy, 1982.

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*The Upstairs Room and the Journey Home*, by Johanna Reiss, New York: Harper Row Publishers, 1990.

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*The Wizard in the Hall*, by Lloyd Alexander, New York: Dell, 1975.

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JIM GIPE

Robert (Chip) Wood has worked  
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Children and the Greenfield  
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